

SENARAI MAKMAL PENGUJIAN BAHAN KIMIA DI MALAYSIA UNTUK PENGELASAN BAHAYA FIZIKAL MENURUT PERUNTUKAN BAHAGIAN 2, PERENGGAN 2.4 TATAMALAN INDUSTRI MENGENAI PENGELASAN BAHAN KIMIA DAN KOMUNIKASI HAZARD, 2014

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No	Laboratory	Address	Contact Person	Type of Tests	Test Methods/ Guides						
1	AWWAM ENVIRONMENTAL LABORATORY SERVICES AIRWASTEWATER MANAGEMENT SDN. BHD	NO. 176, JALAN S2 C9, SEKSYEN C GREEN TECHNOLOGY PARK, SEREMBAN 2 70300 SEREMBAN, NEGERI SEMBILAN	Megat Azim bin Megat Kamarudin (606-603 7053) megat@awwam.com Mariadatulazima binti Johar maria@awwam.com	<table border="1"> <thead> <tr> <th>Materials/ Products Tested</th> <th>Type of Test/ Properties Measured/ Range of Measurement</th> <th>Standard Test Methods/ Equipment/Techniques</th> </tr> </thead> <tbody> <tr> <td>Liquid Waste</td> <td>Flash Point</td> <td>ASTM D 93-16</td> </tr> </tbody> </table>	Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques	Liquid Waste	Flash Point	ASTM D 93-16	Sumber : https://cab.jsm.gov.my/documents/11396/300433/SAMM0997
Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques									
Liquid Waste	Flash Point	ASTM D 93-16									
2	ALS TECHNICHEM (M) SDN. BHD.	NO. 19 & 21, JALAN ASTAKA U8/84 SEKSYEN U8, BUKIT JELUTONG 40150 SHAH ALAM, SELANGOR	Fax No: 603-7845 8258 Web: www.alsglobal.com	<table border="1"> <thead> <tr> <th>Materials/ Products Tested</th> <th>Type of Test/ Properties Measured/ Range of Measurement</th> <th>Standard Test Methods/ Equipment/Techniques</th> </tr> </thead> <tbody> <tr> <td>Diesel Engine Marine Engine Oil</td> <td>Flash Point</td> <td>ASTM D93-16a (Procedure A)</td> </tr> </tbody> </table>	Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques	Diesel Engine Marine Engine Oil	Flash Point	ASTM D93-16a (Procedure A)	Sumber : https://cab.jsm.gov.my/documents/11396/300433/SAMM0147
Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques									
Diesel Engine Marine Engine Oil	Flash Point	ASTM D93-16a (Procedure A)									

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	Standard Test Methods for Flash Point by Pensky-Martens Closed Cup Tester	ASTM D93-20											
4	BIO SYNERGY LABORATORIES SDN. BHD.	NO. 7, JALAN MUTIARA EMAS 6/1A TAMAN MOUNT AUSTIN 81100 JOHOR BAHRU, JOHOR	Khoo Hwa Chuan (604-916 1288) hckhoo@biosynergy.com.my Fax No: 607-351 0635 Web: www.biosynergy.com.my/	<table border="1"> <thead> <tr> <th data-bbox="1150 735 1394 888">Materials/ Products Tested</th> <th data-bbox="1394 735 1640 888">Type of Test/ Properties Measured/ Range of Measurement</th> <th data-bbox="1640 735 1971 888">Standard Test Methods/ Equipment/Techniques</th> </tr> </thead> <tbody> <tr> <td data-bbox="1150 888 1394 1112"> Scheduled Waste <ul style="list-style-type: none"> Solid Waste Liquid Waste Soil and Waste Liquid Waste </td> <td data-bbox="1394 888 1640 1112">Flash Points</td> <td data-bbox="1640 888 1971 1112">USEPA 1010A</td> </tr> <tr> <td data-bbox="1150 1112 1394 1235">Petroleum Product</td> <td data-bbox="1394 1112 1640 1235">Flash Point by Pensky-Martens Closed Cup Tester</td> <td data-bbox="1640 1112 1971 1235">ASTM D 93-02a</td> </tr> </tbody> </table> <p>Sumber : https://cab.jsm.gov.my/documents/11396/300433/SAMM0877</p>	Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques	Scheduled Waste <ul style="list-style-type: none"> Solid Waste Liquid Waste Soil and Waste Liquid Waste 	Flash Points	USEPA 1010A	Petroleum Product	Flash Point by Pensky-Martens Closed Cup Tester	ASTM D 93-02a
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Petroleum Product	Flash Point by Pensky-Martens Closed Cup Tester	ASTM D 93-02a											

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Liquid Waste	Ignitability (Flash Point)	USEPA 1020 B (Setaflash [Small Scale] Closed-Cup Tester)														
6	QUALITY CONTROL LABORATORY BUNGE LODERS CROKLAAN OILS SDN. BHD.	PLO 8 & 9, JALAN TIMAH PASIR GUDANG INDUSTRIAL ESTATE 81700 PASIR GUDANG, JOHOR	Nur Farahhin Bt. Mohd Azmi (607-381 8888) NurFarahhin.Azmi@bungel.com Fax No: 607-381 8828	<table border="1"> <thead> <tr> <th>Materials/ Products Tested</th> <th>Type of Test/ Properties Measured/ Range of Measurement</th> <th>Standard Test Methods/ Equipment/Techniques</th> </tr> </thead> <tbody> <tr> <td> Food <ul style="list-style-type: none"> Oils and Fats </td> <td>Flash Point by Pensky-Martens Closed Cup Tester</td> <td>In House Test Method, TM 070, Based on AOCS Cc 9c-95</td> </tr> </tbody> </table> <p>Sumber : https://cab.jsm.gov.my/documents/11396/300433/SAMM0964</p>	Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques	Food <ul style="list-style-type: none"> Oils and Fats 	Flash Point by Pensky-Martens Closed Cup Tester	In House Test Method, TM 070, Based on AOCS Cc 9c-95						
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Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques														
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Jet Fuel	Determination of flash point - Abel closed-cup method	IP 170-14														
Gasoil / Diesel Fuel	Flash Point by Pensky-Martens Closed Cup Tester	ASTM D93-20 (Proc.A)														
8	CHEMSAIN KONSULTANT SDN. BHD.	172, ROCK ROAD 93200 KUCHING, SARAWAK	Winnie Ling (6082-548 366) winnie.ling@chemsain.com Fax No: 6082-548 388 Web: www.chemsain.com	<table border="1"> <thead> <tr> <th data-bbox="1150 826 1394 979">Materials/ Products Tested</th> <th data-bbox="1394 826 1638 979">Type of Test/ Properties Measured/ Range of Measurement</th> <th data-bbox="1638 826 1971 979">Standard Test Methods/ Equipment/Techniques</th> </tr> </thead> <tbody> <tr> <td data-bbox="1150 979 1394 1070">Fuel Oil</td> <td data-bbox="1394 979 1638 1070">Flash Point by PMCC</td> <td data-bbox="1638 979 1971 1070">ASTM D93-20 (Method B)</td> </tr> <tr> <td data-bbox="1150 1070 1394 1222">Jet Fuel</td> <td data-bbox="1394 1070 1638 1222">Determination of flash point - Abel closed-cup method</td> <td data-bbox="1638 1070 1971 1222">IP 170-14</td> </tr> <tr> <td data-bbox="1150 1222 1394 1346">Gasoil / Diesel Fuel</td> <td data-bbox="1394 1222 1638 1346">Flash Point by Pensky-Martens Closed Cup Tester</td> <td data-bbox="1638 1222 1971 1346">ASTM D93-20 (Proc.A)</td> </tr> </tbody> </table> <p data-bbox="1115 1369 1959 1396">Sumber : https://cab.jsm.gov.my/documents/11396/300433/SAMM0057</p>	Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques	Fuel Oil	Flash Point by PMCC	ASTM D93-20 (Method B)	Jet Fuel	Determination of flash point - Abel closed-cup method	IP 170-14	Gasoil / Diesel Fuel	Flash Point by Pensky-Martens Closed Cup Tester	ASTM D93-20 (Proc.A)
Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques														
Fuel Oil	Flash Point by PMCC	ASTM D93-20 (Method B)														
Jet Fuel	Determination of flash point - Abel closed-cup method	IP 170-14														
Gasoil / Diesel Fuel	Flash Point by Pensky-Martens Closed Cup Tester	ASTM D93-20 (Proc.A)														

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Gasoil / Diesel Fuel	Flash Point by Pensky-Martens Closed Cup Tester	ASTM D93-20 (Proc.A)																	
10	CHEMSAIN KONSULTANT SDN. BHD.	LOT 1942 & 1943, BLOCK 5 JALAN MAIGOLD DESA SENADIN INDUSTRIAL AREA,KUALA BARAM 98100 MIRI, SARAWAK	Rosa Hii Lu Yo ng (6085-652 102) Rosa.hii@chemsain.com Fax No: 6085-657 102 Web: www.chemsain.com	<table border="1"> <thead> <tr> <th>Materials/ Products Tested</th> <th>Type of Test/ Properties Measured/ Range of Measurement</th> <th>Standard Test Methods/ Equipment/Techniques</th> </tr> </thead> <tbody> <tr> <td>Biodiesel</td> <td>Flash Point</td> <td>ASTM D93-20</td> </tr> <tr> <td>Diesel</td> <td>Flash Point</td> <td>ASTM D93-20</td> </tr> <tr> <td>Lubricating Oil</td> <td>Flash Point</td> <td>ASTM D93-20</td> </tr> <tr> <td>JET A1</td> <td>Flash Point (Abel)</td> <td>IP170-14</td> </tr> </tbody> </table> <p>Sumber : https://cab.jsm.gov.my/documents/11396/300433/SAMM0502</p>	Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques	Biodiesel	Flash Point	ASTM D93-20	Diesel	Flash Point	ASTM D93-20	Lubricating Oil	Flash Point	ASTM D93-20	JET A1	Flash Point (Abel)	IP170-14
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Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques																	
Petroleum, Petroleum products	Flash Point	ASTM D 93-20 (Procedure A)																	
12	CHEMSAIN KONSULTANT SDN. BHD.	LOT PT 21702, JALAN KUBANG KURUS KAWASAN PERINDUSTRIAN JAKAR 2 24000 KEMAMAN, TERENGGANU	Rosa Hii Lu Yo ng (6085-652 102) Rosa.hii@chemsain.com Fax No: 6085-657 102 Web: www.chemsain.com	<table border="1"> <thead> <tr> <th data-bbox="1150 553 1396 706">Materials/ Products Tested</th> <th data-bbox="1396 553 1640 706">Type of Test/ Properties Measured/ Range of Measurement</th> <th data-bbox="1640 553 1971 706">Standard Test Methods/ Equipment/Techniques</th> </tr> </thead> <tbody> <tr> <td data-bbox="1150 706 1396 829">Petroleum & Petroleum Products • Crude Oil</td> <td data-bbox="1396 706 1640 829">Flash Point</td> <td data-bbox="1640 706 1971 829">ASTM D 93-20 (Procedure A)</td> </tr> <tr> <td data-bbox="1150 829 1396 891">Lube Oil/ Hydraulic Oil</td> <td data-bbox="1396 829 1640 891">Flash Point</td> <td data-bbox="1640 829 1971 891">ASTM D93-20, ASTM D 93-20 (Procedure A)</td> </tr> <tr> <td data-bbox="1150 891 1396 1109">Environmental Monitoring • Scheduled Waste (Spent Lubricating Oil/ Spent Hydraulic Oil/ Liquid Waste)</td> <td data-bbox="1396 891 1640 1109">Flash Point</td> <td data-bbox="1640 891 1971 1109">USEPA 1010-04</td> </tr> <tr> <td data-bbox="1150 1109 1396 1170">• Biodiesel Blend</td> <td data-bbox="1396 1109 1640 1170">Flash Point</td> <td data-bbox="1640 1109 1971 1170">ASTM D 93-20 (Procedure A)</td> </tr> </tbody> </table> <p>Sumber : https://cab.jsm.gov.my/documents/11396/300433/SAMM0575</p>	Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques	Petroleum & Petroleum Products • Crude Oil	Flash Point	ASTM D 93-20 (Procedure A)	Lube Oil/ Hydraulic Oil	Flash Point	ASTM D93-20, ASTM D 93-20 (Procedure A)	Environmental Monitoring • Scheduled Waste (Spent Lubricating Oil/ Spent Hydraulic Oil/ Liquid Waste)	Flash Point	USEPA 1010-04	• Biodiesel Blend	Flash Point	ASTM D 93-20 (Procedure A)
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• Biodiesel Blend	Flash Point	ASTM D 93-20 (Procedure A)																	

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13	CHEMSAIN KONSULTANT SDN. BHD.	LOT 7, LORONG SURIA OFF LORONG BUAH DUKU 1 TAMAN PERINDUSTRIAN SURIA, JALAN KOLOMBONG 88450 KOTA KINABALU, SABAH	Zaydie Leong (6088-381 277) zaydie.leong@chemsain.com Fax No: 6088-381 280	<table border="1"> <thead> <tr> <th>Materials/ Products Tested</th> <th>Type of Test/ Properties Measured/ Range of Measurement</th> <th>Standard Test Methods/ Equipment/Techniques</th> </tr> </thead> <tbody> <tr> <td>Petroleum Products • Lubricating Oil • Diesel • Fuel Oil • Spent Lubricating Oil / Spent Hydraulic Oil</td> <td>Flash Point</td> <td>ASTM D 93-20 (Procedure B)</td> </tr> <tr> <td>Petroleum and Petroleum Products • JET A-1</td> <td>Flash Point ABEL</td> <td>IP170-14</td> </tr> <tr> <td>• Biodiesel</td> <td>Flash Point</td> <td>ASTM D 93-20 (Procedure C)</td> </tr> <tr> <td>Petroleum & Petroleum Products • Biodiesel Blend</td> <td>Flash Point</td> <td></td> </tr> </tbody> </table> <p>Sumber : https://cab.jsm.gov.my/documents/11396/300433/SAMM0238</p>	Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques	Petroleum Products • Lubricating Oil • Diesel • Fuel Oil • Spent Lubricating Oil / Spent Hydraulic Oil	Flash Point	ASTM D 93-20 (Procedure B)	Petroleum and Petroleum Products • JET A-1	Flash Point ABEL	IP170-14	• Biodiesel	Flash Point	ASTM D 93-20 (Procedure C)	Petroleum & Petroleum Products • Biodiesel Blend	Flash Point	
Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques																	
Petroleum Products • Lubricating Oil • Diesel • Fuel Oil • Spent Lubricating Oil / Spent Hydraulic Oil	Flash Point	ASTM D 93-20 (Procedure B)																	
Petroleum and Petroleum Products • JET A-1	Flash Point ABEL	IP170-14																	
• Biodiesel	Flash Point	ASTM D 93-20 (Procedure C)																	
Petroleum & Petroleum Products • Biodiesel Blend	Flash Point																		
14	(JOHOR LABORATORY) CHEMSAIN KONSULTANT SDN. BHD.	NO. 50 & 52 JALAN PELEPAS 4/9 TAMAN PERINDUSTRIAN TANJUNG PELEPAS 81550 GELANG PATAH, JOHOR	Kuan Ho Tai (607-509 5538) hotai.kuan@chemsain.com Fax No: 607-510 2459 Web: www.chemsain.com	<table border="1"> <thead> <tr> <th>Materials/ Products Tested</th> <th>Type of Test/ Properties Measured/ Range of Measurement</th> <th>Standard Test Methods/ Equipment/Techniques</th> </tr> </thead> <tbody> <tr> <td>Refinery Products</td> <td>Flash Point</td> <td>ASTM D 93-20 (Procedure A)</td> </tr> <tr> <td>Lubricant</td> <td>Cleveland Open Cup Flash Point</td> <td>ASTM D 92-18</td> </tr> <tr> <td>JET-A1</td> <td>Flash Point Abel</td> <td>IP 170-14</td> </tr> </tbody> </table> <p>Sumber : https://cab.jsm.gov.my/documents/11396/300433/SAMM1051</p>	Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques	Refinery Products	Flash Point	ASTM D 93-20 (Procedure A)	Lubricant	Cleveland Open Cup Flash Point	ASTM D 92-18	JET-A1	Flash Point Abel	IP 170-14			
Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques																	
Refinery Products	Flash Point	ASTM D 93-20 (Procedure A)																	
Lubricant	Cleveland Open Cup Flash Point	ASTM D 92-18																	
JET-A1	Flash Point Abel	IP 170-14																	

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15	EDTECH ASSOCIATES SDN. BHD	32, KAJANG ROAD 10150 GEORGE TOWN, PULAU PINANG	Wong Kok Kee (604-229 5986) edtech@tm.net.my Fax No: 604-228 9410	<table border="1"> <thead> <tr> <th data-bbox="1150 152 1394 305">Materials/ Products Tested</th> <th data-bbox="1394 152 1640 305">Type of Test/ Properties Measured/ Range of Measurement</th> <th data-bbox="1640 152 1969 305">Standard Test Methods/ Equipment/Techniques</th> </tr> </thead> <tbody> <tr> <td data-bbox="1150 305 1394 521">Agricultural Products & Materials Palm Oil and other Edible Oils and their Products</td> <td data-bbox="1394 305 1640 521">Flash Point</td> <td data-bbox="1640 305 1969 521">AOCS Cc 9b-55 (1997)</td> </tr> </tbody> </table> <p>Sumber : https://cab.jsm.gov.my/documents/11396/300433/SAMM0012</p>	Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques	Agricultural Products & Materials Palm Oil and other Edible Oils and their Products	Flash Point	AOCS Cc 9b-55 (1997)			
Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques											
Agricultural Products & Materials Palm Oil and other Edible Oils and their Products	Flash Point	AOCS Cc 9b-55 (1997)											
16	EUROFINS NM LABORATORY SDN. BHD.	32, 66, 78 & 80, LORONG PERDA SELATAN 1 BANDAR PERDA 14000 BUKIT MERTAJAM, PULAU PINANG	Daniel Wong Chin Thong (604-538 8081) DanielWong@eurofins.com	<table border="1"> <thead> <tr> <th data-bbox="1150 639 1394 792">Materials/ Products Tested</th> <th data-bbox="1394 639 1640 792">Type of Test/ Properties Measured/ Range of Measurement</th> <th data-bbox="1640 639 1969 792">Standard Test Methods/ Equipment/Techniques</th> </tr> </thead> <tbody> <tr> <td data-bbox="1150 792 1394 915">Solid, semisolid and liquid waste</td> <td data-bbox="1394 792 1640 915">Flash Point</td> <td data-bbox="1640 792 1969 915">In-house method EUBM.SOP.TM.SW.10 based on ASTM D 3828 - 12a</td> </tr> <tr> <td data-bbox="1150 915 1394 976">Liquid waste</td> <td data-bbox="1394 915 1640 976">Flash Point</td> <td data-bbox="1640 915 1969 976">ASTM D 3828 - 12a</td> </tr> </tbody> </table> <p>Sumber : https://cab.jsm.gov.my/documents/11396/300433/SAMM0188</p>	Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques	Solid, semisolid and liquid waste	Flash Point	In-house method EUBM.SOP.TM.SW.10 based on ASTM D 3828 - 12a	Liquid waste	Flash Point	ASTM D 3828 - 12a
Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques											
Solid, semisolid and liquid waste	Flash Point	In-house method EUBM.SOP.TM.SW.10 based on ASTM D 3828 - 12a											
Liquid waste	Flash Point	ASTM D 3828 - 12a											
17	FUTURE PRELUDE LABORATORY FUTURE PRELUDE SDN. BHD.	NO. 11, JALAN SUNGAI PINANG 5/17, KS1 TAMAN PERINDUSTRIAN PULAU INDAH 42920 PELABUHAN KLANG, SELANGOR	Ms Ting Kiok Rui (03 - 3326 7205) kr.ting@futureprelude.com.my Ms Rathiga Ramasamy ramasamy@futureprelude.com.my	<table border="1"> <thead> <tr> <th data-bbox="1150 1068 1394 1221">Materials/ Products Tested</th> <th data-bbox="1394 1068 1640 1221">Type of Test/ Properties Measured/ Range of Measurement</th> <th data-bbox="1640 1068 1969 1221">Standard Test Methods/ Equipment/Techniques</th> </tr> </thead> <tbody> <tr> <td data-bbox="1150 1221 1394 1373">Oleochemicals Biodiesel</td> <td data-bbox="1394 1221 1640 1373">Determination of Flash Point by PenskyMartens Closed Cup Tester</td> <td data-bbox="1640 1221 1969 1373">EN ISO 2719 (M) / Flash Point Analyzer (E)</td> </tr> </tbody> </table> <p>Sumber : https://cab.jsm.gov.my/documents/11396/300433/SAMM1124</p>	Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques	Oleochemicals Biodiesel	Determination of Flash Point by PenskyMartens Closed Cup Tester	EN ISO 2719 (M) / Flash Point Analyzer (E)			
Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques											
Oleochemicals Biodiesel	Determination of Flash Point by PenskyMartens Closed Cup Tester	EN ISO 2719 (M) / Flash Point Analyzer (E)											

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18	MAIN LABORATORY HENGYUAN REFINING COMPANY BERHAD	BATU 1, JALAN PANTAI 71000 PORT DICKSON, NEGERI SEMBILAN	Tiffany Ngieng (606-640 4509) wai-yip.ng@shell.com Fax No: 606-647 4460	<table border="1"> <thead> <tr> <th data-bbox="1150 152 1394 305">Materials/ Products Tested</th> <th data-bbox="1394 152 1640 305">Type of Test/ Properties Measured/ Range of Measurement</th> <th data-bbox="1640 152 1971 305">Standard Test Methods/ Equipment/Techniques</th> </tr> </thead> <tbody> <tr> <td data-bbox="1150 305 1394 451">Petroleum Products Biodiesel</td> <td data-bbox="1394 305 1640 451">Flash Point by Pensky-Martens Closed Cup Tester</td> <td data-bbox="1640 305 1971 451">ASTM-D93</td> </tr> </tbody> </table> <p>Sumber : https://cab.jsm.gov.my/documents/11396/300433/SAMM0037</p>	Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques	Petroleum Products Biodiesel	Flash Point by Pensky-Martens Closed Cup Tester	ASTM-D93
Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques								
Petroleum Products Biodiesel	Flash Point by Pensky-Martens Closed Cup Tester	ASTM-D93								
19	INDELAB SDN BHD	33 & 33-1, JALAN PERMAI 1C/KS 09 TAMAN PANDAMARAN PERMAI 42000 PELABUHAN KLANG, SELANGOR	Cheah Ping Cheong (603-3167 6929) admin@indelab.com.my Fax No: 603-3167 6930	<table border="1"> <thead> <tr> <th data-bbox="1150 573 1394 725">Materials/ Products Tested</th> <th data-bbox="1394 573 1640 725">Type of Test/ Properties Measured/ Range of Measurement</th> <th data-bbox="1640 573 1971 725">Standard Test Methods/ Equipment/Techniques</th> </tr> </thead> <tbody> <tr> <td data-bbox="1150 725 1394 914">Agricultural Products and Materials Palm Oil Product & Edible Oils</td> <td data-bbox="1394 725 1640 914">Flash Point using PenskyMartens closed cup flash tester</td> <td data-bbox="1640 725 1971 914">ISO 15267:1998(E)</td> </tr> </tbody> </table> <p>Sumber : https://cab.jsm.gov.my/documents/11396/300433/SAMM0096</p>	Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques	Agricultural Products and Materials Palm Oil Product & Edible Oils	Flash Point using PenskyMartens closed cup flash tester	ISO 15267:1998(E)
Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques								
Agricultural Products and Materials Palm Oil Product & Edible Oils	Flash Point using PenskyMartens closed cup flash tester	ISO 15267:1998(E)								
20	LABORATORY BUILDING INSPECTORATE MALAYSIA SDN. BHD.	LANGSAT BITUMEN TERMINAL PLO 49, JALAN TENGAR TANJUNG LANGSAT INDUSTRIAL COMPLEX 81700 PASIR GUDANG, JOHOR	Ahmad Farisz Abd. Razak 6019-243 6920 ahmad.farisz@my.bureauveritas.com Web: group.bureauveritas.com	<table border="1"> <thead> <tr> <th data-bbox="1150 1037 1394 1203">Materials/ Products Tested</th> <th data-bbox="1394 1037 1640 1203">Type of Test/ Properties Measured/ Range of Measurement</th> <th data-bbox="1640 1037 1971 1203">Standard Test Methods/ Equipment/Techniques</th> </tr> </thead> <tbody> <tr> <td data-bbox="1150 1203 1394 1356">Asphalt/Bitumen</td> <td data-bbox="1394 1203 1640 1356">Flash Point by Cleveland Open Cup, COC</td> <td data-bbox="1640 1203 1971 1356">ASTM D92-16b</td> </tr> </tbody> </table> <p>Sumber : https://cab.jsm.gov.my/documents/11396/300433/SAMM0784</p>	Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques	Asphalt/Bitumen	Flash Point by Cleveland Open Cup, COC	ASTM D92-16b
Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques								
Asphalt/Bitumen	Flash Point by Cleveland Open Cup, COC	ASTM D92-16b								

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21	INSPECTORATE MALAYSIA SDN. BHD.	LOT PTD 4837, LABORATORY BUILDING MUKIM Pengerang 81600 Kota Tinggi, Johor	Ridzuan Aliman (607-388 8087) ridzuan.aliman@inspectorate.com Fax No: 607-388 8059 Web: group.bureauveritas.com/	<table border="1"> <thead> <tr> <th data-bbox="1136 152 1381 305">Materials/ Products Tested</th> <th data-bbox="1381 152 1627 305">Type of Test/ Properties Measured/ Range of Measurement</th> <th data-bbox="1627 152 1984 305">Standard Test Methods/ Equipment/Techniques</th> </tr> </thead> <tbody> <tr> <td data-bbox="1136 305 1381 493">Aviation Fuel</td> <td data-bbox="1381 305 1627 493">Aviation Fuel Flash Point Abel Closed Cup Method</td> <td data-bbox="1627 305 1984 493">IP 170 / EN ISO 13736</td> </tr> <tr> <td data-bbox="1136 493 1381 678">Gasoil/Diesel Fuel</td> <td data-bbox="1381 493 1627 678">Flash Point by Pensky- Martens Closed Cup Tester</td> <td data-bbox="1627 493 1984 678">ASTM D93 Procedure A</td> </tr> </tbody> </table> <p data-bbox="1115 711 1959 740">Sumber : https://cab.jsm.gov.my/documents/11396/300433/SAMM0398</p>	Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques	Aviation Fuel	Aviation Fuel Flash Point Abel Closed Cup Method	IP 170 / EN ISO 13736	Gasoil/Diesel Fuel	Flash Point by Pensky- Martens Closed Cup Tester	ASTM D93 Procedure A
Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques											
Aviation Fuel	Aviation Fuel Flash Point Abel Closed Cup Method	IP 170 / EN ISO 13736											
Gasoil/Diesel Fuel	Flash Point by Pensky- Martens Closed Cup Tester	ASTM D93 Procedure A											
22	JABATAN KIMIA MALAYSIA	NEGERI PULAU PINANG JALAN TULL 10450 PULAU PINANG, PULAU PINANG	Sukhairi Shamsudin (604-222 8300) sukhairi@kimia.gov.my	<table border="1"> <thead> <tr> <th data-bbox="1115 753 1360 906">Materials/ Products Tested</th> <th data-bbox="1360 753 1606 906">Type of Test/ Properties Measured/ Range of Measurement</th> <th data-bbox="1606 753 1984 906">Standard Test Methods/ Equipment/Techniques</th> </tr> </thead> <tbody> <tr> <td data-bbox="1115 906 1360 1094">Aviation Fuel</td> <td data-bbox="1360 906 1606 1094">Aviation Fuel Flash Point Abel Closed Cup Method</td> <td data-bbox="1606 906 1984 1094">IP 170 / EN ISO 13736</td> </tr> <tr> <td data-bbox="1115 1094 1360 1279">Gasoil/Diesel Fuel</td> <td data-bbox="1360 1094 1606 1279">Flash Point by Pensky- Martens Closed Cup Tester</td> <td data-bbox="1606 1094 1984 1279">ASTM D93 Procedure A</td> </tr> </tbody> </table> <p data-bbox="1115 1312 1959 1341">Sumber : https://cab.jsm.gov.my/documents/11396/300433/SAMM0133</p>	Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques	Aviation Fuel	Aviation Fuel Flash Point Abel Closed Cup Method	IP 170 / EN ISO 13736	Gasoil/Diesel Fuel	Flash Point by Pensky- Martens Closed Cup Tester	ASTM D93 Procedure A
Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques											
Aviation Fuel	Aviation Fuel Flash Point Abel Closed Cup Method	IP 170 / EN ISO 13736											
Gasoil/Diesel Fuel	Flash Point by Pensky- Martens Closed Cup Tester	ASTM D93 Procedure A											

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23	WASTE MANAGEMENT CENTRE KUALITI ALAM SDN. BHD.	LADANG TANAH MERAH, A3 DIVISION BUKIT PELANDUK 71960 PORT DICKSON, NEGERI SEMBILAN	Siti Zaharah Mahazer (606 - 666 2156) zaharah@kualitiam.com Fax No: 606 - 666 2156 Web: www.kualitiam.com	<table border="1"> <thead> <tr> <th data-bbox="1119 131 1362 285">Materials/ Products Tested</th> <th data-bbox="1362 131 1608 285">Type of Test/ Properties Measured/ Range of Measurement</th> <th data-bbox="1608 131 1982 285">Standard Test Methods/ Equipment/Techniques</th> </tr> </thead> <tbody> <tr> <td data-bbox="1119 285 1362 472">Liquid Waste</td> <td data-bbox="1362 285 1608 472">Flash Point</td> <td data-bbox="1608 285 1982 472">USEPA SW 846 1010 A</td> </tr> </tbody> </table> <p>Sumber : https://cab.jsm.gov.my/documents/11396/300433/SAMM0215</p>	Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques	Liquid Waste	Flash Point	USEPA SW 846 1010 A
Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques								
Liquid Waste	Flash Point	USEPA SW 846 1010 A								
24	LAB MASTER SDN. BHD.	LOT 102521, JALAN SUNGAI PINANG 5/3 KAWASAN PERINDUSTRIAN FASA 2 MUKIM KLANG, PULAU INDAH 42920 KLANG, SELANGOR	Sabariah Mohd Yunus (603-3884 9368) enquiry@hiaphuat.com Fax No: 603-3884 9368	<table border="1"> <thead> <tr> <th data-bbox="1119 600 1362 755">Materials/ Products Tested</th> <th data-bbox="1362 600 1608 755">Type of Test/ Properties Measured/ Range of Measurement</th> <th data-bbox="1608 600 1982 755">Standard Test Methods/ Equipment/Techniques</th> </tr> </thead> <tbody> <tr> <td data-bbox="1119 755 1362 941">Liquid Petroleum Products</td> <td data-bbox="1362 755 1608 941">Flash Point</td> <td data-bbox="1608 755 1982 941">ASTM D93-20/Pensky-Marten Closed Cup Tester (Procedure A)</td> </tr> </tbody> </table> <p>Sumber : https://cab.jsm.gov.my/documents/11396/300433/SAMM0769</p>	Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques	Liquid Petroleum Products	Flash Point	ASTM D93-20/Pensky-Marten Closed Cup Tester (Procedure A)
Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques								
Liquid Petroleum Products	Flash Point	ASTM D93-20/Pensky-Marten Closed Cup Tester (Procedure A)								

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25	LOTUS LABORATORY SERVICES (M) SDN. BHD.	NO 41, JALAN TIONG EMAS, KAWASAN PERINDUSTRIAN TIONG NAM, 81100 JOHOR BAHRU, JOHOR	Bong Kuet Tsin (607-355 4063) ktbong@lotuslab.com.my Ƴ Fax No: 607-354 6691 Web: www.lotuslab.com.my	<table border="1"> <thead> <tr> <th data-bbox="1117 131 1400 285">Materials/ Products Tested</th> <th data-bbox="1400 131 1644 285">Type of Test/ Properties Measured/ Range of Measurement</th> <th data-bbox="1644 131 1986 285">Standard Test Methods/ Equipment/Techniques</th> </tr> </thead> <tbody> <tr> <td data-bbox="1117 285 1400 435">Palm Oil and Its Products/Edible Oils and Related Products</td> <td data-bbox="1400 285 1644 435">Flash Point</td> <td data-bbox="1644 285 1986 435">AOCS Cc9b-55 (2017)</td> </tr> </tbody> </table> <p>Sumber : https://cab.jsm.gov.my/documents/11396/300433/SAMM0126</p>	Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques	Palm Oil and Its Products/Edible Oils and Related Products	Flash Point	AOCS Cc9b-55 (2017)			
Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques											
Palm Oil and Its Products/Edible Oils and Related Products	Flash Point	AOCS Cc9b-55 (2017)											
26	ANALYTICAL TECHNOLOGY AND SERVICES DEPARTMENT MALAYSIAN REFINING COMPANY SDN. BHD.	BANGUNAN PENTADBIRAN PERSIARAN PENAPISAN 76300 SUNGAI UDANG, MELAKA	Siddiq Hafiz bin Hassan (606-352 2020) siddiq_hafiz@petronas.com	<table border="1"> <thead> <tr> <th data-bbox="1117 563 1417 717">Materials/ Products Tested</th> <th data-bbox="1417 563 1663 717">Type of Test/ Properties Measured/ Range of Measurement</th> <th data-bbox="1663 563 1999 717">Standard Test Methods/ Equipment/Techniques</th> </tr> </thead> <tbody> <tr> <td data-bbox="1117 717 1417 906"> Petroleum Products (Fuels - Diesel, Jet A-1, Mogas, Petrochemical Naptha, Reformate, Base Oil, High Sulfur Fuel Oil, Low Sulfur Fuel Oil, Low Sulphur Waxy Ridue) </td> <td data-bbox="1417 717 1663 906">Flash Point (Pensky Martens)</td> <td data-bbox="1663 717 1999 906">ASTM D93</td> </tr> <tr> <td data-bbox="1117 906 1417 1036"></td> <td data-bbox="1417 906 1663 1036">Flash Point (Abel)</td> <td data-bbox="1663 906 1999 1036">IP 170</td> </tr> </tbody> </table> <p>Sumber : https://cab.jsm.gov.my/documents/11396/300433/SAMM0124</p>	Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques	Petroleum Products (Fuels - Diesel, Jet A-1, Mogas, Petrochemical Naptha, Reformate, Base Oil, High Sulfur Fuel Oil, Low Sulfur Fuel Oil, Low Sulphur Waxy Ridue)	Flash Point (Pensky Martens)	ASTM D93		Flash Point (Abel)	IP 170
Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques											
Petroleum Products (Fuels - Diesel, Jet A-1, Mogas, Petrochemical Naptha, Reformate, Base Oil, High Sulfur Fuel Oil, Low Sulfur Fuel Oil, Low Sulphur Waxy Ridue)	Flash Point (Pensky Martens)	ASTM D93											
	Flash Point (Abel)	IP 170											

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27	MERIEUX NUTRISCIENCES MALAYSIA SDN. BHD.	PLOT 256, TINGKAT PERUSAHAAN 5 KAWASAN PERINDUSTRIAN PERAI 2 13600 PERAI, PULAU PINANG	Hafizah Abdul Latib (604) 398 1610 hafizah.al@mxns.com Fax No: 604-399 1609 Web: www.merieuxnutrisciences.com/my/	<table border="1"> <thead> <tr> <th data-bbox="1117 144 1400 298">Materials/ Products Tested</th> <th data-bbox="1400 144 1644 298">Type of Test/ Properties Measured/ Range of Measurement</th> <th data-bbox="1644 144 2005 298">Standard Test Methods/ Equipment/Techniques</th> </tr> </thead> <tbody> <tr> <td data-bbox="1117 298 1400 485">Environmental Monitoring Sludge/Solvent Waste</td> <td data-bbox="1400 298 1644 485">Flash Point (Flammability)</td> <td data-bbox="1644 298 2005 485">EPA Method 1010 A ASTM D 93-16a (Procedures A and B)</td> </tr> </tbody> </table> <p>Sumber : https://cab.jsm.gov.my/documents/11396/300433/SAMM0253</p>	Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques	Environmental Monitoring Sludge/Solvent Waste	Flash Point (Flammability)	EPA Method 1010 A ASTM D 93-16a (Procedures A and B)		
Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques										
Environmental Monitoring Sludge/Solvent Waste	Flash Point (Flammability)	EPA Method 1010 A ASTM D 93-16a (Procedures A and B)										
28	SCIENCE AND TECHNOLOGY RESEARCH INSTITUTE FOR DEFENCE (STRIDE) MINISTRY OF DEFENCE MALAYSIA	KOMPLEKS INDUK STRIDE TAMAN BUKIT MEWAH FASA 9 43000 KAJANG, SELANGOR	Norkamizah binti Mohd Nor @ Shamsuri (603-8732 4583) norkamizah.mohdnor@stride.gov.my Fax No: 603-8734 8695 Web: www.stride.gov.my/	<table border="1"> <thead> <tr> <th data-bbox="1117 597 1362 751">Materials/ Products Tested</th> <th data-bbox="1362 597 1608 751">Type of Test/ Properties Measured/ Range of Measurement</th> <th data-bbox="1608 597 1982 751">Standard Test Methods/ Equipment/Techniques</th> </tr> </thead> <tbody> <tr> <td data-bbox="1117 751 1362 938" rowspan="2">Petroleum Products / Aviation Fuels / Lubricants</td> <td data-bbox="1362 751 1608 938">Flash Point by Pensky Martens Closed Cup Tester</td> <td data-bbox="1608 751 1982 938">ASTM D 93 – 20</td> </tr> <tr> <td data-bbox="1362 938 1608 1125">Flash Point by Abel Closed Cup</td> <td data-bbox="1608 938 1982 1125">IP 170 – 2021 ISO 13736 – 2021</td> </tr> </tbody> </table> <p>Sumber : https://cab.jsm.gov.my/documents/11396/300433/SAMM0585</p>	Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques	Petroleum Products / Aviation Fuels / Lubricants	Flash Point by Pensky Martens Closed Cup Tester	ASTM D 93 – 20	Flash Point by Abel Closed Cup	IP 170 – 2021 ISO 13736 – 2021
Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques										
Petroleum Products / Aviation Fuels / Lubricants	Flash Point by Pensky Martens Closed Cup Tester	ASTM D 93 – 20										
	Flash Point by Abel Closed Cup	IP 170 – 2021 ISO 13736 – 2021										

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29	MY CO2 (PG) SDN. BHD.	16, LENGKOK KIKIK 1 TAMAN INDERAWASIH 13600 PERAI, PULAU PINANG	May Chong (604-380 8282) may@myco2.com.my Fax No: 604-380 8280 Web: www.myco2.com.my/	<table border="1"> <thead> <tr> <th data-bbox="1119 131 1362 284">Materials/ Products Tested</th> <th data-bbox="1362 131 1608 284">Type of Test/ Properties Measured/ Range of Measurement</th> <th data-bbox="1608 131 1982 284">Standard Test Methods/ Equipment/Techniques</th> </tr> </thead> <tbody> <tr> <td data-bbox="1119 284 1362 472">Solvent, Chemical, or Lubricant Oil</td> <td data-bbox="1362 284 1608 472">Flash Point</td> <td data-bbox="1608 284 1982 472">ASTM D93</td> </tr> </tbody> </table> <p>Sumber : https://cab.jsm.gov.my/documents/11396/300433/SAMM0384</p>	Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques	Solvent, Chemical, or Lubricant Oil	Flash Point	ASTM D93
Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques								
Solvent, Chemical, or Lubricant Oil	Flash Point	ASTM D93								
30	NABBIR LABORATORY (SARAWAK) SDN. BHD.	LOT 2406 BATU KITANG LIGHT INDUSTRIAL PARK 7 ½ MILE, JALAN BATU KITANG 93250 KUCHING, SARAWAK	Frankie Lau Lee Hung (6082-628 799) nabbir1996@gmail.com	<table border="1"> <thead> <tr> <th data-bbox="1119 634 1362 787">Materials/ Products Tested</th> <th data-bbox="1362 634 1608 787">Type of Test/ Properties Measured/ Range of Measurement</th> <th data-bbox="1608 634 1982 787">Standard Test Methods/ Equipment/Techniques</th> </tr> </thead> <tbody> <tr> <td data-bbox="1119 787 1362 976">Petroleum Products - Transformer Oil</td> <td data-bbox="1362 787 1608 976">Flash Point ASTM D93 (2018)</td> <td data-bbox="1608 787 1982 976">Flash Point ASTM D93 (2018)</td> </tr> </tbody> </table> <p>Sumber : https://cab.jsm.gov.my/documents/11396/300433/SAMM0202</p>	Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques	Petroleum Products - Transformer Oil	Flash Point ASTM D93 (2018)	Flash Point ASTM D93 (2018)
Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques								
Petroleum Products - Transformer Oil	Flash Point ASTM D93 (2018)	Flash Point ASTM D93 (2018)								

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31	NATTEST LAB SDN. BHD.	NO. 16, JALAN 5/108C TAMAN SUNGAI BESI 57100 KUALA LUMPUR, WILAYAH PERSEKUTUAN KUALA LUMPUR	Akma Jahuary (603 2858 7022) adminkl@nationaltestlab.com Wahizan Radz wahizanradzi@gmail.com	<table border="1"> <thead> <tr> <th data-bbox="1121 131 1362 282">Materials/ Products Tested</th> <th data-bbox="1362 131 1608 282">Type of Test/ Properties Measured/ Range of Measurement</th> <th data-bbox="1608 131 1961 282">Standard Test Methods/ Equipment/Techniques</th> </tr> </thead> <tbody> <tr> <td data-bbox="1121 282 1362 472">Bitumen</td> <td data-bbox="1362 282 1608 472">- Flash Point (Cleveland)</td> <td data-bbox="1608 282 1961 472">ASTM D 92 -18</td> </tr> </tbody> </table> <p>Sumber : https://cab.jsm.gov.my/documents/11396/300433/SAMM0853</p>	Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques	Bitumen	- Flash Point (Cleveland)	ASTM D 92 -18
Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques								
Bitumen	- Flash Point (Cleveland)	ASTM D 92 -18								
32	PENTAS FLORA LABORATORY SDN. BHD.	LOT 183, JALAN 5 KOMPLEKS PERABOT OLAK LEMPIT 42700 BANTING, SELANGOR	Chiau Shis Sun (603-3149 1388) chiau@exsim.com.my Fax No: 603-3149 1500 Web: pentasflora.com/	<table border="1"> <thead> <tr> <th data-bbox="1121 602 1362 753">Materials/ Products Tested</th> <th data-bbox="1362 602 1608 753">Type of Test/ Properties Measured/ Range of Measurement</th> <th data-bbox="1608 602 1961 753">Standard Test Methods/ Equipment/Techniques</th> </tr> </thead> <tbody> <tr> <td data-bbox="1121 753 1362 943">Fuel Oil Waste Oil Base Oil Lubricant Oil Engine Oil</td> <td data-bbox="1362 753 1608 943">Flash Point - PMCC</td> <td data-bbox="1608 753 1961 943">ASTM D 93-08</td> </tr> </tbody> </table> <p>Sumber : https://cab.jsm.gov.my/documents/11396/300433/SAMM0751</p>	Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques	Fuel Oil Waste Oil Base Oil Lubricant Oil Engine Oil	Flash Point - PMCC	ASTM D 93-08
Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques								
Fuel Oil Waste Oil Base Oil Lubricant Oil Engine Oil	Flash Point - PMCC	ASTM D 93-08								

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33	PORT DICKSON REFINERY LABORATORY PETRON MALAYSIA REFINING & MARKETING BHD	1 ½ MILES, JALAN PANTAI 71009 PORT DICKSON, NEGERI SEMBILAN	Mohd Rizal Osman (606-646 6179) Mohdrizal.osman@petron.com.my Fax No: 606-647 5684 Web: www.petron.com.my/	<table border="1"> <thead> <tr> <th data-bbox="1117 131 1362 282">Materials/ Products Tested</th> <th data-bbox="1362 131 1608 282">Type of Test/ Properties Measured/ Range of Measurement</th> <th data-bbox="1608 131 1965 282">Standard Test Methods/ Equipment/Techniques</th> </tr> </thead> <tbody> <tr> <td data-bbox="1117 282 1362 472">ADO</td> <td data-bbox="1362 282 1608 472">Flash Point by Pensky- Martens Closed Cup Tester</td> <td data-bbox="1608 282 1965 472">ASTM D93 (Procedure A)</td> </tr> </tbody> </table> <p>Sumber : https://cab.jsm.gov.my/documents/11396/300433/SAMM0749</p>	Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques	ADO	Flash Point by Pensky- Martens Closed Cup Tester	ASTM D93 (Procedure A)						
Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques														
ADO	Flash Point by Pensky- Martens Closed Cup Tester	ASTM D93 (Procedure A)														
34	ANALYTICAL TECHNOLOGY & SERVICES (ATS) PETRONAS PENAPISAN (TERENGGANU) SDN BHD	PETRONAS PENAPISAN (TERENGGANU) SDN BHD KERTEH 24300 KEMAMAN, TERENGGANU	M Al Aqsa B A Malek (609-830 3228) alagsa_malek@petronas.com Fax No: 609-828 3263	<table border="1"> <thead> <tr> <th data-bbox="1117 602 1362 753">Materials/ Products Tested</th> <th data-bbox="1362 602 1608 753">Type of Test/ Properties Measured/ Range of Measurement</th> <th data-bbox="1608 602 1965 753">Standard Test Methods/ Equipment/Techniques</th> </tr> </thead> <tbody> <tr> <td data-bbox="1117 753 1362 943">JET A1</td> <td data-bbox="1362 753 1608 943">Determination of Flash Point - Abel Closed Cup Method</td> <td data-bbox="1608 753 1965 943">IP 170</td> </tr> <tr> <td data-bbox="1117 943 1362 1133">Diesel</td> <td data-bbox="1362 943 1608 1133">Flash Point by Pensky - Martens Closed Cup Tester</td> <td data-bbox="1608 943 1965 1133">ASTM D93</td> </tr> <tr> <td data-bbox="1117 1133 1362 1279">LSWR</td> <td data-bbox="1362 1133 1608 1279">Flash Point By Pensky - Martens Closed Cup Tester</td> <td data-bbox="1608 1133 1965 1279">ASTM D93</td> </tr> </tbody> </table> <p>Sumber : https://cab.jsm.gov.my/documents/11396/300433/SAMM0328</p>	Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques	JET A1	Determination of Flash Point - Abel Closed Cup Method	IP 170	Diesel	Flash Point by Pensky - Martens Closed Cup Tester	ASTM D93	LSWR	Flash Point By Pensky - Martens Closed Cup Tester	ASTM D93
Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques														
JET A1	Determination of Flash Point - Abel Closed Cup Method	IP 170														
Diesel	Flash Point by Pensky - Martens Closed Cup Tester	ASTM D93														
LSWR	Flash Point By Pensky - Martens Closed Cup Tester	ASTM D93														

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35	NATURAL RESOURCES – OGC PETROTECHNICAL INSPECTION (M) SDN. BHD.	WISMA SGS, LOT 603 LEBUH RAJA LUMU KAWASAN PERINDUSTRIAN PKNS PANDAMARAN 42000 PELABUHAN KLANG, SELANGOR	Aliaa Diana Sarip (603-3101 1917) aliaadiana.sarip@sgs.com Zulkarnain Hamid (603-2095 9200) Zulkarnain.Hamid@sgs.com Fax No: 603-3101 1875 Web: www.sgs.com	<table border="1"> <thead> <tr> <th data-bbox="1117 131 1362 282">Materials/ Products Tested</th> <th data-bbox="1362 131 1608 282">Type of Test/ Properties Measured/ Range of Measurement</th> <th data-bbox="1608 131 1965 282">Standard Test Methods/ Equipment/Techniques</th> </tr> </thead> <tbody> <tr> <td data-bbox="1117 282 1362 472">Petroleum Products</td> <td data-bbox="1362 282 1608 472">Flash Point by Pensky-Martens Closed Cup Tester</td> <td data-bbox="1608 282 1965 472">ASTM D93-20</td> </tr> <tr> <td data-bbox="1117 472 1362 662">Lubricant Oil</td> <td data-bbox="1362 472 1608 662">Flash Point by Small Scale Closed Cup Tester</td> <td data-bbox="1608 472 1965 662">ASTM D3828-16a(2017)</td> </tr> <tr> <td data-bbox="1117 662 1362 852">Petroleum Products/ Aviation Fuels</td> <td data-bbox="1362 662 1608 852">Determination of Flash Point – ABEL Closed Cup Method</td> <td data-bbox="1608 662 1965 852">IP 170/2021</td> </tr> </tbody> </table> <p>Sumber :https://cab.jsm.gov.my/documents/11396/300433/SAMM0629</p>	Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques	Petroleum Products	Flash Point by Pensky-Martens Closed Cup Tester	ASTM D93-20	Lubricant Oil	Flash Point by Small Scale Closed Cup Tester	ASTM D3828-16a(2017)	Petroleum Products/ Aviation Fuels	Determination of Flash Point – ABEL Closed Cup Method	IP 170/2021
Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques														
Petroleum Products	Flash Point by Pensky-Martens Closed Cup Tester	ASTM D93-20														
Lubricant Oil	Flash Point by Small Scale Closed Cup Tester	ASTM D3828-16a(2017)														
Petroleum Products/ Aviation Fuels	Determination of Flash Point – ABEL Closed Cup Method	IP 170/2021														
36	PETROTECHNICAL INSPECTION (M) SDN. BHD.	LOT 9, GROUND & 1 ST FLOOR, BLOCK C MPL SAGUKING WAREHOUSE JALAN PATAU- PATAU 87000 LABUAN, WILAYAH PERSEKUTUAN LABUAN	Nicholas Seah (6087-422 463) Nicholas.Seah@sgs.com Zulkarnain Hamid (603-2095 9200) Zulkarnain.Hamid@sgs.com Fax No: 6087-414 766 Web: www.sgs.com	<table border="1"> <thead> <tr> <th data-bbox="1117 946 1362 1097">Materials/ Products Tested</th> <th data-bbox="1362 946 1608 1097">Type of Test/ Properties Measured/ Range of Measurement</th> <th data-bbox="1608 946 1965 1097">Standard Test Methods/ Equipment/Techniques</th> </tr> </thead> <tbody> <tr> <td data-bbox="1117 1097 1362 1271"> Petroleum & Petroleum Products Aviation Fuels </td> <td data-bbox="1362 1097 1608 1271">Flash Point</td> <td data-bbox="1608 1097 1965 1271">IP 170</td> </tr> </tbody> </table> <p>Sumber :https://cab.jsm.gov.my/documents/11396/300433/SAMM0175</p>	Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques	Petroleum & Petroleum Products Aviation Fuels	Flash Point	IP 170						
Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques														
Petroleum & Petroleum Products Aviation Fuels	Flash Point	IP 170														

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37	PETROTECHNICAL INSPECTION (M) SDN. BHD.	LOT 11256 & 11257, PT 17641 TAMAN INDUSTRI PAKA PAKA 23100 DUNGUN, TERENGGANU	Akmal Yahya (609-827 5092) Akmal.yahya@sgs.com Zulkarnain Hamid (603-2095 9200) Zulkarnain.Hamid@sgs.com Fax No: 609-827 5082 Web: www.sgs.com	<table border="1"> <thead> <tr> <th data-bbox="1117 131 1362 282">Materials/ Products Tested</th> <th data-bbox="1362 131 1608 282">Type of Test/ Properties Measured/ Range of Measurement</th> <th data-bbox="1608 131 1965 282">Standard Test Methods/ Equipment/Techniques</th> </tr> </thead> <tbody> <tr> <td data-bbox="1117 282 1362 488">Petroleum and Petroleum Products Miscellaneous Products</td> <td data-bbox="1362 282 1608 488">Flash point by Pensky-Martens Closed Cup Tester</td> <td data-bbox="1608 282 1965 488">ASTM D93-20</td> </tr> </tbody> </table> <p>Sumber : https://cab.jsm.gov.my/documents/11396/300433/SAMM0284</p>	Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques	Petroleum and Petroleum Products Miscellaneous Products	Flash point by Pensky-Martens Closed Cup Tester	ASTM D93-20
Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques								
Petroleum and Petroleum Products Miscellaneous Products	Flash point by Pensky-Martens Closed Cup Tester	ASTM D93-20								
38	PRPC UF CENTRALISED LABORATORY SERVICES PRPC UTILITIES AND FACILITIES SDN. BHD.	LOT 16A, LABORATORY BUILDING 8310-LBB-801 RAPID SITE PROJECT, PENGERANG INTEGRATED COMPLEX 81600 PENGERANG, JOHOR	Fiteri Azhar B A Rahim (603-2051 5000) fiteri_azhar@petronas.com	<table border="1"> <thead> <tr> <th data-bbox="1117 618 1362 769">Materials/ Products Tested</th> <th data-bbox="1362 618 1608 769">Type of Test/ Properties Measured/ Range of Measurement</th> <th data-bbox="1608 618 1965 769">Standard Test Methods/ Equipment/Techniques</th> </tr> </thead> <tbody> <tr> <td data-bbox="1117 769 1362 883">Petroleum</td> <td data-bbox="1362 769 1608 883">Flash point</td> <td data-bbox="1608 769 1965 883">ASTM D93 (2020) IP 170 (2021)</td> </tr> </tbody> </table> <p>Sumber : https://cab.jsm.gov.my/documents/11396/300433/SAMM1017</p>	Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques	Petroleum	Flash point	ASTM D93 (2020) IP 170 (2021)
Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques								
Petroleum	Flash point	ASTM D93 (2020) IP 170 (2021)								

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39	RFL PETROLAB SDN. BHD.	K7168 & K7169, JALAN GUNTUNG 2 BANDAR SERI KERTIH 24300 KERTEH, TERENGGANU	Razfaliza Binti Roslan (609-825 1523) razfaliza@petrolab.com.my	<table border="1"> <thead> <tr> <th data-bbox="1119 131 1362 297">Materials/ Products Tested</th> <th data-bbox="1362 131 1608 297">Type of Test/ Properties Measured/ Range of Measurement</th> <th data-bbox="1608 131 1965 297">Standard Test Methods/ Equipment/Techniques</th> </tr> </thead> <tbody> <tr> <td data-bbox="1119 297 1362 488"> Petroleum and Petroleum Products -Crude Petroleum -Fuels -Lubricants and Hydraulic Oil </td> <td data-bbox="1362 297 1608 488">Standard Test Methods for Flash Point by Pensky-Martens Closed Cup Tester</td> <td data-bbox="1608 297 1965 488">ASTM D93 - 20</td> </tr> <tr> <td data-bbox="1119 488 1362 688"></td> <td data-bbox="1362 488 1608 688">Determination of Flash Point - Pensky-Martens Closed Cup Method</td> <td data-bbox="1608 488 1965 688">ISO 2719:2016</td> </tr> </tbody> </table> <p>Sumber : https://cab.jsm.gov.my/documents/11396/300433/SAMM1077</p>	Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques	Petroleum and Petroleum Products -Crude Petroleum -Fuels -Lubricants and Hydraulic Oil	Standard Test Methods for Flash Point by Pensky-Martens Closed Cup Tester	ASTM D93 - 20		Determination of Flash Point - Pensky-Martens Closed Cup Method	ISO 2719:2016
Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques											
Petroleum and Petroleum Products -Crude Petroleum -Fuels -Lubricants and Hydraulic Oil	Standard Test Methods for Flash Point by Pensky-Martens Closed Cup Tester	ASTM D93 - 20											
	Determination of Flash Point - Pensky-Martens Closed Cup Method	ISO 2719:2016											
40	PRODUCT INSPECTION SECTION QUALITY ASSURANCE UNIT TNB LABS SDN. BHD.	NO. 1, LORONG AYER HITAM KAWASAN INSTITUSI PENYELIDIKAN KAJANG, SELANGOR	Zulfadhly Zardi (603-8922 5172) fadhly@tnbr.com.my Fax No: 603-8926 8829 Web: www.tnbrqats.com.my	<table border="1"> <thead> <tr> <th data-bbox="1136 816 1379 971">Materials/ Products Tested</th> <th data-bbox="1379 816 1625 971">Type of Test/ Properties Measured/ Range of Measurement</th> <th data-bbox="1625 816 1982 971">Standard Test Methods/ Equipment/Techniques</th> </tr> </thead> <tbody> <tr> <td data-bbox="1136 971 1379 1032">Insulating Oil</td> <td data-bbox="1379 971 1625 1032">Flash Point</td> <td data-bbox="1625 971 1982 1032">ISO 2719:2002</td> </tr> </tbody> </table> <p>Sumber : https://cab.jsm.gov.my/documents/11396/300433/SAMM0184</p>	Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques	Insulating Oil	Flash Point	ISO 2719:2002			
Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques											
Insulating Oil	Flash Point	ISO 2719:2002											

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41	NO. 17 & 19, JALAN ASTAKA U8/83 TRANSFORMER OIL LAB & SERVICES SDN. BHD.	BUKIT JELUTONG BUSINESS & TECHNOLOGY CENTRE 40150 SHAH ALAM, SELANGOR	Wan Azlina Mohd Zaini (03-7848 1888 ext: 1898) tols@spm.com.my Fax No: 03-7848 1882 Web: www.spm.com.my/ services-detail- transformer.php	<table border="1"> <thead> <tr> <th>Materials/ Products Tested</th> <th>Type of Test/ Properties Measured/ Range of Measurement</th> <th>Standard Test Methods/ Equipment/Techniques</th> </tr> </thead> <tbody> <tr> <td>Insulating oil / Transformer oil</td> <td>Flash Point</td> <td>ISO 2719:2016 (Procedure C)</td> </tr> </tbody> </table>	Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques	Insulating oil / Transformer oil	Flash Point	ISO 2719:2016 (Procedure C)	<table border="1"> <thead> <tr> <th>Materials/ Products Tested</th> <th>Type of Test/ Properties Measured/ Range of Measurement</th> <th>Standard Test Methods/ Equipment/Techniques</th> </tr> </thead> <tbody> <tr> <td>Insulating oil / Transformer oil</td> <td>Flash Point</td> <td>ISO 2719:2016 (Procedure C)</td> </tr> </tbody> </table>	Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques	Insulating oil / Transformer oil	Flash Point	ISO 2719:2016 (Procedure C)	<p>Sumber : https://cab.jsm.gov.my/documents/11396/300433/SAMM0427</p> <p>Sumber : https://cab.jsm.gov.my/documents/11396/300433/SAMM0125</p>
Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques																
Insulating oil / Transformer oil	Flash Point	ISO 2719:2016 (Procedure C)																
Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques																
Insulating oil / Transformer oil	Flash Point	ISO 2719:2016 (Procedure C)																
42	UNIT PERKHIDMATAN MAKMAL (UNIPEM) UNIVERSITI TEKNOLOGI MALAYSIA	ARAS 2, BLOK N 07, KEJURUTERAAN TENAGA, FAKULTI KEJURUTERAAN, 81310 JOHOR BAHRU, JOHOR	Dr. Muhammad b. A. Manan (607-553 5733) M_amanan@fkkksa.utm .my Fax No: 607 - 5581463															

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43	YANMAR KOTA KINABALU R&D CENTER SDN. BHD.	LOT 11 & 12, IZ4 JALAN KKIP 1G, KKIP SELATAN, KKIP 88450 KOTA KINABALU, SABAH	Michelle Ni Fong Fong (6088-496 777) ni_fongfong@yanmar.co.jp Fax No: 6088-496 999 Web: www.yanmar.com/eu/about/technology/cor_e_excellence/ykrc/	<table border="1"> <thead> <tr> <th>Materials/ Products Tested</th> <th>Type of Test/ Properties Measured/ Range of Measurement</th> <th>Standard Test Methods/ Equipment/Techniques</th> </tr> </thead> <tbody> <tr> <td> Petroleum products -Biodiesel -Biodiesel blend -Diesel </td> <td>Flash Point</td> <td>ISO 2719:2016 (Procedure C)</td> </tr> <tr> <td> Petroleum products -Lubricant </td> <td>Flash Point</td> <td>ASTM D93-20</td> </tr> </tbody> </table>	Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques	Petroleum products -Biodiesel -Biodiesel blend -Diesel	Flash Point	ISO 2719:2016 (Procedure C)	Petroleum products -Lubricant	Flash Point	ASTM D93-20
				Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques							
				Petroleum products -Biodiesel -Biodiesel blend -Diesel	Flash Point	ISO 2719:2016 (Procedure C)							
Petroleum products -Lubricant	Flash Point	ASTM D93-20											
Sumber : https://cab.jsm.gov.my/documents/11396/300433/SAMM0704													

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**SENARAI MAKMAL PENGUJIAN BAHAN KIMIA DI MALAYSIA UNTUK
PENGELASAN BAHAYA FIZIKAL MENURUT PERUNTUKAN BAHAGIAN 2,
PERENGGAN 2.4 TATAMALAN INDUSTRI MENGENAI PENGELASAN BAHAN KIMIA
DAN KOMUNIKASI HAZARD, 2014**

The screenshot shows a search interface on a light blue background. At the top left, there is a text box containing 'SACCREDITED'. To its right is a search input field with the placeholder text 'Search Conformity Assessment Body'. Below these are three dropdown menus: 'Type of Programme:' with '--- Select ---', 'List of Fields by Programme:' with '--- Select ---', and 'Status Programme:' with '--- Select ---'. Further down are two more dropdowns: 'State:' with '--- Select ---' and 'Scope/Keyword(s):' with the text 'separate by comma (,) eg: water, sugar'. A yellow 'Search!' button is positioned to the right of the 'Scope/Keyword(s)' field. Below the search area, a light blue box displays the search results: 'Search Result For :', 'Programme : **Testing**', 'Field : **Toxicity**', 'Status : **ACCREDITED**', and 'Found : **6** Organisation(s)'.

Disertakan pautan Jabatan Standard Malaysia (JSM) untuk maklumat terkini,

<https://www.jsm.gov.my/>

JSM Portal > Accreditation Organisations > Programme/Scheme > SACCREDITED

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No	Laboratory	Address	Contact Person	Type of Tests	Test Methods/ Guides
1	MAKMAL BIOSERASI DAN KLINIKAL HEALTHMEDIC RESEARCH SDN. BHD.	LOT B-G-34 & 35,PANGSAPURI SRI PENARA JALAN SRI PERMAISURI 1 BANDAR SRI PERMAISURI, CHERAS 56000 KUALA LUMPUR, WILAYAH PERSEKUTUAN KUALA LUMPUR	Dr. Sharifah Ismail (603-9172 6629) healthmedicsb@yahoo.c om.uk	<p>Type of Test/ Properties Measured/ Range of Measurement</p> <p>Irritation effect of skin</p> <p>Effect of skin sensitization</p>	<p>Standard Test Methods/ Equipment/Techniques</p> <p>Primary Skin Irritation Test</p> <ul style="list-style-type: none"> • TM-PSI-01A ASTM 719-81 (Reapproved 2012) • TM-PSI-01B 16 CFR 1500:41 & 1500:3(C)(4) • TM-PSI-02 ISO 10993-23:2021(E) <p>Cumulative Irritation Test</p> <ul style="list-style-type: none"> • TM-CSI-01 ISO 10993-23:2021(E) <p>Intracutaneous Test</p> <ul style="list-style-type: none"> • TM-ICT-01 ISO 10993-23:2021(E) <p>Effect of skin sensitization Dermal Sensitization Assay- Guinea Pig Maximization Test</p> <ul style="list-style-type: none"> • TM-DSA-01A ASTM 720-13 (2013) • TM-DSA-01B ISO 10993-10:2021(E) <p>Dermal Sensitization Assay- Closed Patch Test</p> <ul style="list-style-type: none"> • TM-DSA-02B Modified Buehler Method • TM-DSA-02A ISO 10993-10: 2021 (E)

Sumber : <https://cab.jsm.gov.my/documents/11396/300433/SAMM0504>

Note:

ASTM : American Society for Testing and Material
ISO : International Standardization for Organization
CFR : Code of Federal Regulation

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2	IPHARM TESTING LABORATORY MALYSIAN INSTITUTE OF PHARMACEUTICALS AND NUTRACEUTICALS NATIONAL INSTITUTES OF BIOTECHNOLOGY MALAYSIA MINISTRY OF SCIENCE, TECHNOLOGY AND INNOVATION (MOSTI)	BLOCK 5-A, HALAMAN BUKIT GAMBIR 11700 GELUGOR, PULAU PINANG	Fax No: 604-656 3020 Web: nibm.my/v5/index.php/ip_harm/ Dr. Lau Wai Kwan (604-652 1200) waikwan@nibm.my	<table border="1"> <thead> <tr> <th data-bbox="1136 152 1476 245">Type of Test/ Properties Measured/ Range of Measurement</th> <th data-bbox="1476 152 1984 245">Standard Test Methods/ Equipment/Techniques</th> </tr> </thead> <tbody> <tr> <td data-bbox="1136 245 1476 370">Cytotoxicity</td> <td data-bbox="1476 245 1984 370">ISO 10993-5 (2013): Biological evaluation of medical devices – Part 5: Tests for in vitro cytotoxicity – Annex C: MTT cytotoxicity test</td> </tr> <tr> <td data-bbox="1136 370 1476 524">Cytotoxicity</td> <td data-bbox="1476 370 1984 524">In-house method: IP/LTM/002 based on ISO 10993-5 (2013): Biological evaluation of medical devices – Part 5: Tests for in vitro cytotoxicity – Annex C: MTT cytotoxicity test</td> </tr> </tbody> </table> <p>Sumber : https://cab.jsm.gov.my/documents/11396/300433/SAMM0948</p>	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques	Cytotoxicity	ISO 10993-5 (2013): Biological evaluation of medical devices – Part 5: Tests for in vitro cytotoxicity – Annex C: MTT cytotoxicity test	Cytotoxicity	In-house method: IP/LTM/002 based on ISO 10993-5 (2013): Biological evaluation of medical devices – Part 5: Tests for in vitro cytotoxicity – Annex C: MTT cytotoxicity test
Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques									
Cytotoxicity	ISO 10993-5 (2013): Biological evaluation of medical devices – Part 5: Tests for in vitro cytotoxicity – Annex C: MTT cytotoxicity test									
Cytotoxicity	In-house method: IP/LTM/002 based on ISO 10993-5 (2013): Biological evaluation of medical devices – Part 5: Tests for in vitro cytotoxicity – Annex C: MTT cytotoxicity test									
3	MY CO2 (PG) SDN. BHD.	16, LENGKOK KIKIK 1 TAMAN INDERAWASIH 13600 PERAI, PULAU PINANG	Fax No: 604-380 8280 Web: www.myco2.com.my/ May Chong (604-380 8282) may@myco2.com.my	<table border="1"> <thead> <tr> <th data-bbox="1136 758 1455 927">Type of Test/ Properties Measured/ Range of Measurement</th> <th data-bbox="1455 758 1963 927">Standard Test Methods/ Equipment/Techniques</th> </tr> </thead> <tbody> <tr> <td data-bbox="1136 927 1455 1052">In vitro-cytotoxicity</td> <td data-bbox="1455 927 1963 1052">In House Method MY/STP/431 based on ISO 10993-12: 2012 and ISO 10993-5: 2009 (Annex C: MTT assay)</td> </tr> </tbody> </table> <p>Sumber : https://cab.jsm.gov.my/documents/11396/300433/SAMM0384</p>	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques	In vitro-cytotoxicity	In House Method MY/STP/431 based on ISO 10993-12: 2012 and ISO 10993-5: 2009 (Annex C: MTT assay)		
Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques									
In vitro-cytotoxicity	In House Method MY/STP/431 based on ISO 10993-12: 2012 and ISO 10993-5: 2009 (Annex C: MTT assay)									

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4	INDUSTRIAL BIOTECHNOLOGY RESEARCH CENTRE (IBRC) SIRIM BERHAD	BLOCK 19, SIRIM BERHAD NO.1, PERSIARAN DATO' MENTERI SECTION 2, 40700 SHAH ALAM, SELANGOR	Fax No: 603-5544 6988 Web: www.sirim.my/IBRC Sarifah Binti Rejab (603-5544 6952) sarifah@sirim.my	<table border="1"> <thead> <tr> <th data-bbox="1157 152 1493 245">Type of Test/ Properties Measured/ Range of Measurement</th> <th data-bbox="1493 152 1965 245">Standard Test Methods/ Equipment/Techniques</th> </tr> </thead> <tbody> <tr> <td data-bbox="1157 245 1493 337">In vitro-cytotoxicity</td> <td data-bbox="1493 245 1965 337">ISO 10993-5:2009, Biological evaluation of medical device – Part 5 (LWI-238-02)</td> </tr> <tr> <td data-bbox="1157 337 1493 521">Cytotoxicity Test</td> <td data-bbox="1493 337 1965 521">BS 6920-2.1:2014 BS 6920-2.5:2000+A2:2014 MS 1583-Part 2: Section 1:2003 MS 1583-Part 2: Section 5:2003 (LWI-238-01)</td> </tr> <tr> <td data-bbox="1157 521 1493 857">Balb/C 3T3 Neutral Red Uptake Cytotoxicity Test Acute Oral Toxicity (Acute Toxic Class Method) – Limit Test Acute Oral Toxicity (Up and Down Procedure) – Limit Test</td> <td data-bbox="1493 521 1965 857">LWI-238-03 based on ICCVAM 2006 LWI-238-24 based on OECD 423 Adopted 17 December 2001 LWI-238-27 based on OECD 425 Adopted 3 October 2008</td> </tr> <tr> <td data-bbox="1157 857 1493 1073">Systemic Toxicity</td> <td data-bbox="1493 857 1965 1073">ISO 10993-11:2017 (E)-3rd Edition Part 11 2017-09-15 [Exclude clause 6 Repeated Exposure Systemic Toxicity (Subacute, Subchronic and Chronic Systemic Toxicity)] LWI-238-61</td> </tr> <tr> <td data-bbox="1157 1073 1493 1198">Primary Skin Irritation</td> <td data-bbox="1493 1073 1965 1198">ISO 10993-23:2021 – 1st Edition [Exclude Annex E (Human Skin Irritation Test)]</td> </tr> </tbody> </table> <p data-bbox="1115 1198 1965 1230">Sumber : https://cab.jsm.gov.my/documents/11396/300433/SAMM0676</p>	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques	In vitro-cytotoxicity	ISO 10993-5:2009, Biological evaluation of medical device – Part 5 (LWI-238-02)	Cytotoxicity Test	BS 6920-2.1:2014 BS 6920-2.5:2000+A2:2014 MS 1583-Part 2: Section 1:2003 MS 1583-Part 2: Section 5:2003 (LWI-238-01)	Balb/C 3T3 Neutral Red Uptake Cytotoxicity Test Acute Oral Toxicity (Acute Toxic Class Method) – Limit Test Acute Oral Toxicity (Up and Down Procedure) – Limit Test	LWI-238-03 based on ICCVAM 2006 LWI-238-24 based on OECD 423 Adopted 17 December 2001 LWI-238-27 based on OECD 425 Adopted 3 October 2008	Systemic Toxicity	ISO 10993-11:2017 (E)-3rd Edition Part 11 2017-09-15 [Exclude clause 6 Repeated Exposure Systemic Toxicity (Subacute, Subchronic and Chronic Systemic Toxicity)] LWI-238-61	Primary Skin Irritation	ISO 10993-23:2021 – 1st Edition [Exclude Annex E (Human Skin Irritation Test)]
Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques															
In vitro-cytotoxicity	ISO 10993-5:2009, Biological evaluation of medical device – Part 5 (LWI-238-02)															
Cytotoxicity Test	BS 6920-2.1:2014 BS 6920-2.5:2000+A2:2014 MS 1583-Part 2: Section 1:2003 MS 1583-Part 2: Section 5:2003 (LWI-238-01)															
Balb/C 3T3 Neutral Red Uptake Cytotoxicity Test Acute Oral Toxicity (Acute Toxic Class Method) – Limit Test Acute Oral Toxicity (Up and Down Procedure) – Limit Test	LWI-238-03 based on ICCVAM 2006 LWI-238-24 based on OECD 423 Adopted 17 December 2001 LWI-238-27 based on OECD 425 Adopted 3 October 2008															
Systemic Toxicity	ISO 10993-11:2017 (E)-3rd Edition Part 11 2017-09-15 [Exclude clause 6 Repeated Exposure Systemic Toxicity (Subacute, Subchronic and Chronic Systemic Toxicity)] LWI-238-61															
Primary Skin Irritation	ISO 10993-23:2021 – 1st Edition [Exclude Annex E (Human Skin Irritation Test)]															

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5

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CENTRE FOR
NATURAL AND
PHYSICAL
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MANAGEMENT
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UKM)
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KEBANGSAAN
MALAYSIA**

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datang//](http://www.ukm.my/port
alukm/ms/selamat-
datang//)

Farhanah Mohd Zaher
603-8921 4280
farhanah@ukm.edu.my

Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Cytotoxic effect (in vitro)	MTT Assay based on J. Immunol. Methods. (1983) 65:55-63 with modification
Genotoxicity effect – DNA damage, DNA strand breaks (in vitro)	Alkaline Comet Assay based on Environ Mol Mutagen (2000) 35:206-221
Genotoxicity effect – Determination of reverse gene mutation effects (in vitro)	Bacterial Reverse Mutation Test based on Test Guideline OECD 471 (2020)
Acute toxicity effect (in vivo)	Acute Oral Toxicity Study based on Test Guideline OECD 423 (2002)
	Acute Oral Toxicity Study based on Test Guideline OECD 402 (1987)
Irritation effect of skin (in vivo)	Animal Irritation Test based on ISO 10993-23:2021, Single-Exposure Test
	Primary Skin Irritation Assay based on 16 CFR 1500.41 & 1500.3 (c)(4)
Effect of skin sensitization (in vivo)	Skin Sensitization Test – Guinea Pig Maximization Test based on ISO 10993-10:2021
	Dermal Sensitization Assay – Maximization based on ASTM F720-13
	Skin Sensitization Test - Closed Patch Test (Buehler Test) based on ISO 10993-10:2021
Cytotoxic effect (in vitro)	MEM Elution Assay based on ISO 10993-5:2009
	MTT Assay (Annex C) based on ISO 10993-5:2009
Acute toxicity effect (in vivo)	Acute Systemic Toxicity Study (Intravenous) based on ISO 10993-11:2017
Acute toxicity effect (in vivo)	Acute Systemic Toxicity Study (Intraperitoneal) based on ISO 10993-11:2017
Intracutaneous reactivity of the skin (in vivo)	Animal Irritation Test by Intracutaneous (Intradermal) Administration ISO 10993-23:2021

6	ANIMAL CELL CULTURE LABORATORY UNIVERSITI MALAYSIA TERENGGANU	INSTITUTE OF MARINE BIOTECHNOLOGY 21030 KUALA TERENGGANU, TERENGGANU	Fax No: 609-668 3105 Web: imb.umt.edu.my/facilities-and-services/labs/ Thirukanthan S/O Chandra Segaran 609-668 3104 thiru@umt.edu.my	<table border="1"> <thead> <tr> <th data-bbox="1157 152 1457 321">Type of Test/ Properties Measured/ Range of Measurement</th> <th data-bbox="1457 152 1965 321">Standard Test Methods/ Equipment/Techniques</th> </tr> </thead> <tbody> <tr> <td data-bbox="1157 321 1457 474">Cytotoxicity Assay</td> <td data-bbox="1457 321 1965 474"> MTS cytotoxicity method based on Journal of Ethnopharmacology 150 (2013) 382-388. Document number: IMB/STM/AC/CTA/2013 (1) </td> </tr> </tbody> </table> <p>Sumber : https://cab.jsm.gov.my/documents/11396/300433/SAMM0796</p>	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques	Cytotoxicity Assay	MTS cytotoxicity method based on Journal of Ethnopharmacology 150 (2013) 382-388. Document number: IMB/STM/AC/CTA/2013 (1)
Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques							
Cytotoxicity Assay	MTS cytotoxicity method based on Journal of Ethnopharmacology 150 (2013) 382-388. Document number: IMB/STM/AC/CTA/2013 (1)							

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SENARAI MAKMAL PENGUJIAN BAHAN KIMIA DI MALAYSIA UNTUK PENGELASAN BAHAYA FIZIKAL MENURUT PERUNTUKAN BAHAGIAN 2, PERENGGAN 2.4 TATAMALAN INDUSTRI MENGENAI PENGELASAN BAHAN KIMIA DAN KOMUNIKASI HAZARD, 2014

The screenshot displays a search interface on a light blue background. At the top left, there is a text box containing 'SAMP 000' and a search bar labeled 'Search Conformity Assessment Body'. Below these are three dropdown menus: 'Type of Programme:' (set to '--- Select ---'), 'List of Fields by Programme:' (set to '--- Select ---'), and 'Status Programme:' (set to '--- Select ---'). Further down are 'State:' (set to '--- Select ---') and 'Scope/Keyword(s):' (containing the text 'separate by comma (,) eg: water, sugar'). A yellow 'Search!' button is positioned to the right of the keyword field. Below the search area, a light blue box displays the search results: 'Search Result For :', 'Scope(s): ACUTE', 'Programme : Testing', 'Field : Biological', 'Status : ACCREDITED', and 'Found : 2 Organisation(s)'.

Disertakan pautan Jabatan Standard Malaysia (JSM) untuk maklumat terkini,

<https://www.jsm.gov.my/>

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No	Laboratory	Address	Contact Person	Type of Tests	Test Methods/ Guides												
1	ALS TECHNICHEM (M) SDN. BHD.	NO. 19 & 21, JALAN ASTAKA U8/84 SEKSYEN U8, BUKIT JELUTONG 40150 SHAH ALAM, SELANGOR	Fax No: 603-7845 8258 Web: www.alsglobal.com	<table border="1"> <thead> <tr> <th>Type of Test/ Properties Measured/ Range of Measurement</th> <th>Standard Test Methods/ Equipment/Techniques</th> </tr> </thead> <tbody> <tr> <td>Zooplankton</td> <td>In-house Method QWI-BI/17-001 based on APHA 10200 G (23rd Edition, 2017)</td> </tr> <tr> <td>Phytoplankton</td> <td>In-house Method QWI-BI/17-002 based on APHA 10200 F (23rd Edition, 2017)</td> </tr> </tbody> </table>	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques	Zooplankton	In-house Method QWI-BI/17-001 based on APHA 10200 G (23rd Edition, 2017)	Phytoplankton	In-house Method QWI-BI/17-002 based on APHA 10200 F (23rd Edition, 2017)							
Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques																
Zooplankton	In-house Method QWI-BI/17-001 based on APHA 10200 G (23rd Edition, 2017)																
Phytoplankton	In-house Method QWI-BI/17-002 based on APHA 10200 F (23rd Edition, 2017)																
Sumber : https://cab.jsm.gov.my/documents/11396/300433/SAMM0147																	
2	ENVIRONMENTAL TECHNOLOGY RESEARCH CENTRE (ETRC)	BUILDING 15,SIRIM BERHAD NO.1, PERSIARAN DATO' MENTERI P.O. BOX 7035 40700 SHAH ALAM, SELANGOR	Fax No: 03-5544 6590 Web: nibm.my/v5/index.php/ip_harm/ Tan Yong Nee 03- 5544 6591 yntan@sirim.my	BIOLOGICAL (TOXICITY) <table border="1"> <thead> <tr> <th>Type of Test/ Properties Measured/ Range of Measurement</th> <th>Standard Test Methods/ Equipment/Techniques</th> </tr> </thead> <tbody> <tr> <td>Fish: Acute Toxicity Test</td> <td>OECD Guideline for Testing of Chemicals Method No. 203:2019</td> </tr> <tr> <td>Daphnia sp.: Acute Immobilisation Test</td> <td>OECD Guideline for Testing of Chemicals Method No. 202:2004</td> </tr> <tr> <td>Algae : Growth Inhibition Test</td> <td>OECD Guideline for Testing of Chemicals Method No. 201:2011</td> </tr> <tr> <td>Terrestrial Plants : Growth Test</td> <td>OECD Guideline for Testing of Chemicals Method No. 208:2006</td> </tr> <tr> <td>Bacterial Reverse Mutation Test</td> <td>OECD Guideline for Testing of Chemicals Method No. 471:1997</td> </tr> </tbody> </table>	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques	Fish: Acute Toxicity Test	OECD Guideline for Testing of Chemicals Method No. 203:2019	Daphnia sp.: Acute Immobilisation Test	OECD Guideline for Testing of Chemicals Method No. 202:2004	Algae : Growth Inhibition Test	OECD Guideline for Testing of Chemicals Method No. 201:2011	Terrestrial Plants : Growth Test	OECD Guideline for Testing of Chemicals Method No. 208:2006	Bacterial Reverse Mutation Test	OECD Guideline for Testing of Chemicals Method No. 471:1997	
Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques																
Fish: Acute Toxicity Test	OECD Guideline for Testing of Chemicals Method No. 203:2019																
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				<table border="1"> <tr> <td>In-vitro Skin Corrosion: Reconstructed Human Epidermis (RHE) Test Method</td> <td>OECD Guidelines for Testing of Chemicals Method No. 431:2016</td> </tr> <tr> <td>In-vitro Skin Irritation: Reconstructed Human Epidermis (RHE) Test Method</td> <td>OECD Guidelines for Testing of Chemicals Method No. 439:2015</td> </tr> </table>	In-vitro Skin Corrosion: Reconstructed Human Epidermis (RHE) Test Method	OECD Guidelines for Testing of Chemicals Method No. 431:2016	In-vitro Skin Irritation: Reconstructed Human Epidermis (RHE) Test Method	OECD Guidelines for Testing of Chemicals Method No. 439:2015				
In-vitro Skin Corrosion: Reconstructed Human Epidermis (RHE) Test Method	OECD Guidelines for Testing of Chemicals Method No. 431:2016											
In-vitro Skin Irritation: Reconstructed Human Epidermis (RHE) Test Method	OECD Guidelines for Testing of Chemicals Method No. 439:2015											
BIOLOGICAL (BIODEGRADATION)												
				<table border="1"> <thead> <tr> <th>Type of Test/ Properties Measured/ Range of Measurement</th> <th>Standard Test Methods/ Equipment/Techniques</th> </tr> </thead> <tbody> <tr> <td>Ultimate aerobic biodegradability</td> <td>ISO 14855-2:2018</td> </tr> <tr> <td>Determination of the degree of disintegration of plastic materials</td> <td>ISO 20200:2015</td> </tr> <tr> <td>Anaerobic biodegradation</td> <td>ASTM D5511-18</td> </tr> </tbody> </table>	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques	Ultimate aerobic biodegradability	ISO 14855-2:2018	Determination of the degree of disintegration of plastic materials	ISO 20200:2015	Anaerobic biodegradation	ASTM D5511-18
Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques											
Ultimate aerobic biodegradability	ISO 14855-2:2018											
Determination of the degree of disintegration of plastic materials	ISO 20200:2015											
Anaerobic biodegradation	ASTM D5511-18											
BIOLOGICAL (IN-VITRO CHROMOSOME ABERRATION TEST)												
				<table border="1"> <thead> <tr> <th>Type of Test/ Properties Measured/ Range of Measurement</th> <th>Standard Test Methods/ Equipment/Techniques</th> </tr> </thead> <tbody> <tr> <td>In-Vitro Mammalian Chromosomal Aberration Test (CAT)</td> <td>OECD Guideline For Testing Of Chemicals Method No. 473:2016</td> </tr> </tbody> </table>	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques	In-Vitro Mammalian Chromosomal Aberration Test (CAT)	OECD Guideline For Testing Of Chemicals Method No. 473:2016				
Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques											
In-Vitro Mammalian Chromosomal Aberration Test (CAT)	OECD Guideline For Testing Of Chemicals Method No. 473:2016											
				Sumber : https://cab.jsm.gov.my/documents/11396/300433/SAMM0195								

PENAFIAN :

Semua senarai makmal pengujian di atas mempunyai akreditasi dari Jabatan Standard Malaysia (JSM) dan mempunyai tempoh sah laku yang telah ditetapkan. Mohon rujuk kepada laman sesawang JSM untuk maklumat terkini.