

**Scope of Accreditation for Testing**  
**Certificate No. 19T176/0952**

Laboratory Name : TÜV SÜD (Thailand) Limited

Address : 111, 130, 131 Moo 9 Paholyothin Road, Klong Nueng, Klong Luang, Pathum Thani

Accreditation No. : TESTING 0152

Laboratory Status  Permanent  Site  Temporary  Mobile

Field of Testing	Specific Test	Test Method
Electrical and electronic field 1. Electrical and electronic equipment	<ul style="list-style-type: none"> <li>- Limits for harmonic current emissions (equipment input current <math>\leq 16</math> A per phase)</li>   <li>- Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current <math>\leq 16</math> A per phase and not subject to conditional connection</li>   <li>- Full test</li> </ul>	<ul style="list-style-type: none"> <li>- TIS 1448-2553 (2010)</li> <li>- IEC 61000-3-2 Third edition 2005-11</li> <li>- IEC 61000-3-2 Edition 3.2:2009-04</li> <li>- IEC 61000-3-2 Edition 4.0:2014-05</li> <li>- IEC 61000-3-2 Edition 5.0:2018-01</li> <li>- EN 61000-3-2 : 2006</li> <li>- EN 61000-3-2/A1:2009</li> <li>- EN 61000-3-2/A2:2009</li> <li>- EN 61000-3-2 : 2014</li>   <li>- TIS 1449-2553 (2010)</li> <li>- IEC 61000-3-3 Edition 2.0:2008-06</li> <li>- IEC 61000-3-3 Edition 3.0:2013-05</li> <li>- IEC 61000-3-3:2013/AMD1:2017</li> <li>- EN 61000-3-3 : 2008</li> <li>- EN 61000-3-3 : 2013</li>   <li>- TIS 1452-2552 (2009)</li> <li>- IEC 61000-4-2 Edition 1.2:2001-04</li> <li>- IEC 61000-4-2 Edition 2.0:2008-12</li> </ul>



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Electrical and electronic field 1. Electrical and electronic equipment (Cont.)	<ul style="list-style-type: none"> <li>- Full test Except Signal lines and Control lines</li>   <li>- Full test Except Signal lines and Control lines</li>   <li>- Full test</li>   <li>- Full test</li>   <li>- Full test Except Signal lines and Control lines</li> </ul>	<ul style="list-style-type: none"> <li>- TIS 1454-2552 (2009)</li> <li>- IEC 61000-4-4 Second edition 2004-07</li> <li>- IEC 61000-4-4 Edition 2.1: 2011-03</li> <li>- IEC 61000-4-4 Edition 3.0: 2012-04</li>   <li>- TIS 1455-2540 (1997)</li> <li>- IEC 61000-4-5 Edition 1.1: 2001-04</li> <li>- IEC 61000-4-5 Second edition 2005-11</li> <li>- IEC 61000-4-5 Edition 3.0: 2014-05</li> <li>- IEC 61000-4-5:2014/AMD1:2017</li>   <li>- TIS 1457-2552 (2009)</li> <li>- IEC 61000-4-8 Edition 1.1: 2001-03</li> <li>- IEC 61000-4-8 Edition 2.0: 2009-09</li>   <li>- TIS 1460-2552 (2009)</li> <li>- IEC 61000-4-11 Edition 1.1: 2001-03</li> <li>- IEC 61000-4-11 Second edition 2004-03</li> <li>- IEC 61000-4-11:2004/AMD1:2017</li>   <li>- TIS 2394-2551 (2008)</li> <li>- IEC 61000-4-6 Edition 1.1: 2001-04</li> <li>- IEC 61000-4-6 Edition 2.2: 2006-05</li> <li>- IEC 61000-4-6 Edition 3.0: 2008-10</li> <li>- IEC 61000-4-6 Edition 4.0: 2013-10</li> </ul>



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Electrical and electronic field 2. Electrical lighting and similar equipment	- Full test (CDN method)	- TIS 1955-2551 (2008) - CISPR 15 Edition 6.2: 2002-10 - CISPR 15 Edition 7.1: 2007-01 - CISPR 15 Edition 7.2: 2009-01 - CISPR 15 Edition 8.0: 2013-05 - CISPR 15:2013/AMD1:2015 - CISPR 15 Edition 8.1: 2015-03 - CISPR 15 Edition 9.0: 2018-05 - EN 55015: 2006+A1: 2007 - EN 55015: 2006+A2: 2009 - EN 55015: 2013 - EN 55015: 2013/A1: 2015
3. Information technology equipments	- Full test Except <ul style="list-style-type: none"> <li>• Radio-frequency electromagnetic field</li> <li>• Signal lines and Control lines</li> </ul> - Disturbance voltage Except telecommunication port	- IEC 61547 First edition 1995-09 and Amendment 1: 2000-08 - IEC 61547 Edition 2.0: 2009-06 - EN 61547 : 2009 - TIS 1956-2553 (2010) - CISPR 22 Fifth edition 2005-04 - CISPR 22 Edition 5.2: 2006-03 - CISPR 22 Edition 6.0: 2008-09 - EN 55022 : 2010



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Electrical and electronic field 3. Information technology equipments (Cont.)	- Full test Except <ul style="list-style-type: none"> <li>• Radio-frequency electromagnetic field</li> <li>• Signal lines and Control lines</li> </ul>	- CISPR 24 First edition 1997-09, Amendment 1: 2001-07 and Amendment 2: 2002-10 - CISPR 24 Edition 2.0: 2010-08 - CISPR 24:2010/AMD1:2015 - CISPR 24 Edition 2.1: 2015-04 - EN 55024 : 2010 - EN 55024: 2010/A1: 2015
4. Electrical and electronic equipment for use in residential, commercial and light-industrial environments	- Low voltage AC mains port  - Full test Except <ul style="list-style-type: none"> <li>• Radio-frequency electromagnetic field</li> <li>• Signal lines and Control lines</li> </ul>	- IEC 61000-6-3 Second edition 2006-07 - IEC 61000-6-3 Edition 2.1: 2011-02 - EN 61000-6-3 : 2007 - EN 61000-6-3: 2007/A1: 2011  - IEC 61000-6-1 Second edition 2005-03 - EN 61000-6-1 : 2007
5. Electrical and electronic equipment for use in industrial environments	- Low voltage AC mains port	- IEC 61000-6-4 Second edition 2006-07 - IEC 61000-6-4 Edition 2.1: 2011-02 - EN 61000-6-4 : 2007 - EN 61000-6-4: 2007/A1: 2011



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Electrical and electronic field		
5. Electrical and electronic equipment for use in industrial environments (Cont.)	<ul style="list-style-type: none"> <li>- Full test</li> <li>Except               <ul style="list-style-type: none"> <li>• Radio-frequency electromagnetic field</li> <li>• Signal lines and Control lines</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>- IEC 61000-6-2 Second edition 2005-01</li> <li>- EN 61000-6-2 : 2005</li> </ul>
6. Household and similar electrical appliances	<ul style="list-style-type: none"> <li>- Full test</li> <li>Except               <ul style="list-style-type: none"> <li>• Radiated disturbances</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>- TIS 2238-2548 (2005)</li> <li>- CISPR 14-1 Edition 4.2: 2002-10</li> <li>- CISPR 14-1 Fifth edition 2005-11</li> <li>- CISPR 14-1 Edition 5.1: 2009-12</li> <li>- CISPR 14-1 Edition 5.2: 2011-11</li> <li>- CISPR 14-1 Edition 6.0: 2016-08</li> <li>- EN 55014-1 : 2006 +A1: 2009</li> <li>- EN 55014-1 : 2006 +A2: 2011</li> <li>- EN 55014-1 : 2017</li> </ul>
	<ul style="list-style-type: none"> <li>- Full test</li> <li>Except               <ul style="list-style-type: none"> <li>• Radio-frequency electromagnetic field</li> <li>• Signal lines and Control lines</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>- CISPR 14-2 Edition 1.1: 2001-11</li> <li>- CISPR 14-2 Edition 1.2: 2008-07</li> <li>- CISPR 14-2 Edition 2.0: 2015-02</li> <li>- EN 55014-2 : 1997+A1 : 2001</li> <li>- EN 55014-2 : 1997+A2 : 2008</li> <li>- EN 55014-2 : 2015</li> </ul>
	<ul style="list-style-type: none"> <li>- Full test</li> <li>(Time domain evaluation method)</li> </ul>	<ul style="list-style-type: none"> <li>- IEC 62233 First edition 2005-10</li> <li>- EN 62233 : 2008</li> </ul>



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Electrical and electronic field 6. Household and similar electrical appliances (Cont.)	<ul style="list-style-type: none"> <li>- Measurement of standby power</li>   <li>- Full test                          Except clause 19.11.4.2, 19.11.4.7, 22.32 (Oxygen Bomb), 22.46</li> </ul>	<ul style="list-style-type: none"> <li>- IEC 62301 First edition 2005-06</li> <li>- IEC 62301 Edition 2.0: 2011-01</li>   <li>- TIS 1375-2547 (2004)</li> <li>- IEC 60335-1 Third edition 1991-04</li> <li>- IEC 60335-1: 1991 Amendment 1: 1994-11</li> <li>- IEC 60335-1: 1991 Amendment 2: 1999-06</li> <li>- IEC 60335-1 Fourth edition 2001-05</li> <li>- IEC 60335-1: 2001 Amendment 1: 2004-03</li> <li>- IEC 60335-1: 2001 Amendment 2: 2006-05</li> <li>- IEC 60335-1 Edition 5.0: 2010-05</li> <li>- IEC 60335-1: 2010 Amendment 1: 2013-12</li> <li>- IEC 60335-1: 2010 Amendment 2: 2016-05</li> </ul>
7. Electric irons	<ul style="list-style-type: none"> <li>- Full test</li> </ul>	<ul style="list-style-type: none"> <li>- TIS 366-2547 (2004)</li> <li>- IEC 60335-2-3 Fifth edition 2002-03</li> <li>- IEC 60335-2-3: 2002-03 Amendment 1: 2004-11</li> <li>- IEC 60335-2-3 edition 5.0: 2008-04 Amendment 2</li> <li>- IEC 60335-2-3 Edition 6.0: 2012-03</li> <li>- IEC 60335-2-3 Edition 6.0 Amendment 1: 2015-07</li> </ul>



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Electrical and electronic field 8. Motor-compressors	- Full test Except annex AA	- TIS 812-2558 (2015) - IEC 60335-2-34 Fourth edition 2002-10 - IEC 60335-2-34: 2002 Amendment 1: 2004-12 - IEC 60335-2-34 Edition 4.0: 2008-10 Amendment 2 - IEC 60335-2-34 Edition 5.0: 2012-05 - IEC 60335-2-34 Edition 5.0 Amendment 1: 2015-05 - IEC 60335-2-34 Edition 5.0 Amendment 2: 2016-11
9. A.C. electric fans	- Full test	- TIS 934-2533 (1990) - TIS 934-2558 (2015) - IEC 60335-2-80 Second edition 2002-09 - IEC 60335-2-80: 2002 Amendment 1: 2004-01 - IEC 60335-2-80 Edition 2.0: 2008-07 Amendment 2 - IEC 60335-2-80 Edition 3.0: 2015-04
10. Electric rice cookers	- Full test	- TIS 1039-2547 (2004)



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Electrical and electronic field 11. Tumble dryers	- Full test Except annex R	- TIS 1389-2559 (2016) - IEC 60335-2-11 Sixth edition 2002-03 - IEC 60335-2-11: 2002 Amendment 1: 2003-01 - IEC 60335-2-11: 2002 Amendment 2: 2006-04 - IEC 60335-2-11 Edition 7.0: 2008-07 - IEC 60335-2-11 Edition 7.0: Amendment 1: 2012-10 - IEC 60335-2-11 Edition 7.0: Amendment 2: 2015-11
12. Washing machines	- Full test Except clause 19.11.4.2, 19.11.4.7, 22.46	- TIS 1463-2556 (2013) - IEC 60335-2-7 Sixth edition 2002-07 - IEC 60335-2-7: 2002 Amendment 1: 2004-01 - IEC 60335-2-7: 2002 Amendment 2: 2006-03 - IEC 60335-2-7 Edition 7.0: 2008-06 - IEC 60335-2-7 Edition 7.0: 2011-12 Amendment 1 - IEC 60335-2-7 Edition 7.0: 2016-04 Amendment 2





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Electrical and electronic field 13. Electric fryers	- Full test	- TIS 1509-2547 (2004) - IEC 60335-2-13 Fifth edition 2002-10 - IEC 60335-2-13: 2002 Amendment 1: 2004-04 - IEC 60335-2-13 Edition 5.0: 2008-01 Amendment 2 - IEC 60335-2-13 Edition 6.0: 2009-12 - IEC 60335-2-13 Edition 6.0: 2016-04 Amendment 1
14. Kitchen machines	- Full test	- TIS 1515-2550 (2007) - IEC 60335-2-14 Fourth edition 2002-10 - IEC 60335-2-14 Fifth edition 2006-04 - IEC 60335-2-14 Edition 5.0: 2008-07 Amendment 1 - IEC 60335-2-14 Edition 5.0: 2012-11 Amendment 2 - IEC 60335-2-14 Edition 6.0: 2016-06
15. Air-cleaning appliances	- Full test Except clause 32	- TIS 1516-2549 (2006) - IEC 60335-2-65 Second edition 2002-10 - IEC 60335-2-65 Edition 2.0: 2008-04 Amendment 1 - IEC 60335-2-65 Edition 2.0: 2015-01 Amendment 2

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Electrical and electronic field 16. Vacuum cleaners and water-suction cleaning appliances	- Full test	<ul style="list-style-type: none"> <li>- TIS 1522-2552 (2009)</li> <li>- IEC 60335-2-2 Fifth edition 2002-05</li> <li>- IEC 60335-2-2: 2002 Amendment 1: 2004-08</li> <li>- IEC 60335-2-2: 2002 Amendment 2: 2006-07</li> <li>- IEC 60335-2-2 edition 6.0: 2009-12</li> <li>- IEC 60335-2-2 edition 6.0: 2012-11 Amendment 1</li> <li>- IEC 60335-2-2 edition 6.0: 2016-04 Amendment 2</li> </ul>
17. Grills, toasters and similar portable cooking appliances	- Full test Except clause 31	<ul style="list-style-type: none"> <li>- TIS 1641-2552 (2009)</li> <li>- IEC 60335-2-9 Fifth edition 2002-03</li> <li>- IEC 60335-2-9: 2002 Amendment 1: 2004-01</li> <li>- IEC 60335-2-9: 2002 Amendment 2: 2006-01</li> <li>- IEC 60335-2-9 edition 6.0: 2008-07</li> <li>- IEC 60335-2-9 edition 6.0: 2012-11 Amendment 1</li> <li>- IEC 60335-2-9 edition 6.0: 2016-04 Amendment 2</li> </ul>



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Electrical and electronic field 18. Instantaneous water heaters	- Full test	- TIS 1693-2547 (2004) - IEC 60335-2-35 Fourth edition 2002-10 - IEC 60335-2-35: 2002 Amendment 1: 2006-10 - IEC 60335-2-35 Edition 4.0 Amendment 2: 2009-12 - IEC 60335-2-35 Edition 5.0: 2012-11 - IEC 60335-2-35 Edition 5.0: 2016-11 Amendment 1 - SS 146 : Part 2 : 5 : 2007
19. Microwave ovens	- Full test  - Microwave power output - Efficiency	- TIS 1773-2548 (2005) - IEC 60335-2-25 Fifth edition 2002-03 - IEC 60335-2-25: 2002 Amendment 1: 2005-04 - IEC 60335-2-25: 2002 Amendment 2: 2006-06 - IEC 60335-2-25 Edition 6.0: 2010-09 - IEC 60335-2-25 Edition 6.0: 2014-08 Amendment 1 - IEC 60335-2-25 Edition 6.0: 2015-11 Amendment 2 - IEC 60705 Edition 4.0:2010-04

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Field of Testing	Specific Test	Test Method
Electrical and electronic field 19. Microwave ovens (Cont.)	- Full test	- In-house method: TPT-PS-117TM based on Department of Alternative Energy Development and Efficiency's Announcement on energy efficiency test method for microwave oven B.E. 2551 (2008)
20. Warming plates and similar appliances	- Full test	- TIS 1775-2555 (2012) - IEC 60335-2-12 Fifth edition 2002-10 - IEC 60335-2-12 Edition 5.0: 2008-04 Amendment 1 - IEC 60335-2-12 Edition 5.0: 2017-10 Amendment 2
21. Stationary cooking ranges, hobs, ovens and similar appliances	- Full test Except clause 22.110 and 32.101	- TIS 1913-2554 (2011) - IEC 60335-2-6 Fifth edition 2002-07 - IEC 60335-2-6: 2002-07 Amendment 1: 2004-11 - IEC 60335-2-6 Edition 5.0: 2008-01 Amendment 2 - IEC 60335-2-6 Edition 6.0: 2014-02 - IEC 60335-2-6 Edition 6.0: 2018-05 Amendment 1
22. Appliances for skin or hair care	- Full test	- TIS 1985-2549 (2006) - IEC 60335-2-23 Fifth edition 2003-01 - IEC 60335-2-23 Edition 5.0: 2008-01 Amendment 1 - IEC 60335-2-23 Edition 6.0: 2016-06

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Field of Testing	Specific Test	Test Method
Electrical and electronic field 23. Electric thermo pots	- Full test	- TIS 2062-2558 (2015)
24. Household refrigerators	- Full test Except clause 21.101	- TIS 2214-2548 (2005) - IEC 60335-2-24 Sixth edition 2002-10 - IEC 60335-2-24: 2002 Amendment 1: 2005-02 - IEC 60335-2-24: 2002 Amendment 2: 2007-01 - IEC 60335-2-24 Edition 7.0: 2010-02 - IEC 60335-2-24 Edition 7.0: 2012-05 Amendment 1 - IEC 60335-2-24 Edition 7.0: 2017-04 Amendment 2
	- Energy efficiency - Energy consumption - Internal volume	- TIS 2186-2547 (2004) - EGAT's Energy efficiency Label No.5 : household refrigerators Program, B.E. 2555 (2012)
	- Determination of linear dimensions, volume and areas - Testing storage temperatures - Temperature rise test - Freezing test - Ice-making test	- ISO 15502 First edition 2005-10-15 - IEC 62552 Edition 1.0: 2007-12 - EN 153: 2006



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Electrical and electronic field 24. Household refrigerator (Cont.)	<ul style="list-style-type: none"> <li>- Energy consumption test</li>   <li>- Storage shelf area</li> <li>- Gross and storage volume</li> <li>- Pull down</li> <li>- Automatic ice-making capacity</li> <li>- Operating temperature performance</li> <li>- Energy test requirement</li>   <li>- Total refrigerated volumes</li>   <li>- Storage test</li> <li>- Cooling capacity test</li> <li>- Freezing capacity test</li> <li>- Automatic ice-making capacity test</li> </ul>	<ul style="list-style-type: none"> <li>- ISO 15502 First edition 2005-10-15</li> <li>- IEC 62552 Edition 1.0: 2007-12</li> <li>- IEC 62552-1 Edition 1.0: 2015-02</li> <li>- IEC 62552-2 Edition 1.0: 2015-02</li> <li>- IEC 62552-3 Edition 1.0: 2015-02</li> <li>- EN 153: 2006</li> <li>- SASO 2664/2007</li> <li>- SASO 2664/2013</li>   <li>- AS/NZS 4474.1: 2007, A1: 2008, A2: 2011</li>   <li>- SASO 2664/2007</li> <li>- SASO 2664/2013</li>   <li>- IEC 62552-1 Edition 1.0: 2015-02</li> <li>- IEC 62552-2 Edition 1.0: 2015-02</li> <li>- IEC 62552-3 Edition 1.0: 2015-02</li> </ul>



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Electrical and electronic field 25. Appliances for heating liquids	- Full test	- TIS 2439-2552 (2009) - IEC 60335-2-15 Fifth edition 2002-07 - IEC 60335-2-15: 2002-07 Amendment 1: 2005-08 - IEC 60335-2-15 Edition 5.0: 2008-07 Amendment 2 - IEC 60335-2-15 Edition 6.0: 2012-11 - IEC 60335-2-15 Edition 6.0: 2016-04 Amendment 1
26. Electric pumps	- Full test	- TIS 1548-2551 (2008) - IEC 60335-2-41 Third edition 2002-10 - IEC 60335-2-41: 2002 Amendment 1: 2004-01 - IEC 60335-2-41 Edition 3.0: 2002 Amendment 2: 2009-12 - IEC 60335-2-41 Edition 4.0: 2012-12
27. Spin extractors	- Full test Except clause 19.11.4.2, 19.11.4.7, 22.46	- IEC 60335-2-4 Fifth edition 2002-03 - IEC 60335-2-4: 2002-03 Amendment 1: 2004-01 - IEC 60335-2-4: 2002 Amendment 2: 2006-03 - IEC 60335-2-4 Edition 6.0: 2008-09 - IEC 60335-2-4 Edition 6.0: 2012-11 Amendment 1 - IEC 60335-2-4 Edition 6.0: 2017-08 Amendment 2

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Electrical and electronic field 28. Commercial refrigerating appliances	- Full test	- IEC 60335-2-89 First edition 2002-05 - IEC 60335-2-89: 2002 Amendment 1: 2005-02 - IEC 60335-2-89: 2002 Amendment 2: 2007-01 - IEC 60335-2-89 Edition 2.0: 2010-02 - IEC 60335-2-89 Edition 2.1: 2012-07 - IEC 60335-2-89 Edition 2.0: 2015-05 Amendment 2
29. Computer equipment and functional part	- Energy consumption	- NECTEC 2005.2.1-2553, National Electronics and Computer Technology Center
30. Freezer	- Total refrigerated volumes - Energy consumption test	- SASO 2664/2007 - SASO 2664/2013
31. Enclosures for electrical equipment	- Degree of protection (IP code) Except IPX8	- TIS 513-2548 (2005) - IEC 529 Second edition : 1998-11 - IEC 60529 : 1998-11 Amendment 1: 1999-11 - IEC 60529 : 2001-02
32. Clothes washing machines	- Water and energy consumption and programme time	- Singapore water efficiency labelling scheme (WELS) Guidebook dated 4 May 18 - Malaysia Minimum energy performance standards (MEPS) Amendment 1 dated May 14, 2018



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Electrical and electronic field 33. Storage water heaters	- Full test	- IEC 60335-2-21 Edition 6.0: 2012-11 - IEC 60335-2-21 Edition 6.0: 2018-01 Amendment 1
34. Oral hygiene appliances	- Full test	- IEC 60335-2-52 Third edition 2002-10 - IEC 60335-2-52 Edition 3.0: 2008-04 Amendment 1 - IEC 60335-2-52 Edition 3.0: 2008-01 Amendment 2
Electrical and electronics and automotive parts field 35. Electrical and electronic components for road vehicles	- Test A: Cold (Low-temperature test) (-20) °C to 5 °C  - Test B: Dry heat (High-temperature test) 40 °C to 150 °C  - Test Na: Rapid change of temperature with prescribed time of transfer (-20) °C to 150 °C  - Test Nb: Change of temperature with specified rate of change (-20) °C to 150 °C	- IEC 60068-2-1 Sixth edition: 2007-03 - ISO 16750-4: 2010  - IEC 60068-2-2 Edition 5.0: 2007-07 - ISO 16750-4: 2010  - IEC 60068-2-14 Edition 6.0: 2009-01 - ISO 16750-4: 2010

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Electrical and electronics and automotive parts field		
35. Electrical and electronic components for road vehicles (Cont.)	- Test Fc: Vibration (sinusoidal) 10 Hz to 2 000 Hz, 500 m/s <sup>2</sup>	- IEC 60068-2-6 Edition 7.0: 2007-12 - ISO 16750-3: 2007 - ISO 16750-3:2012
36. Enclosure of the electrical equipment of road vehicles	- Degrees of protection (IP Code) IP5KX, IP6KX, IPX6K, IPX7 and IPX9K	- ISO 20653:2013
37. Electrical and automotive Parts	- Test Ea and guidance: Shock  - Vibration, broadband random and guidance	- IEC 60068-2-27 Edition 4.0: 2008-02 - ISO 16750-3:2012  - IEC 60068-2-64:2008 - ISO 16750-3:2012
Automotive parts field		
38. Interior materials	- Flammability - Burning behavior	- FMVSS 302 Oct 18, 1991 - ISO 3795:1989
39. Metallic materials	- Neutral salt spray (NSS) - Salt spray	- ISO 9227:2017 - ASTM B117 - 18
40. Automotive exterior materials	- Accelerated exposure	- SAE J 1960 Rev. OCT 2004 - SAE J 2527 Issued FEB 2004



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Automotive parts field 41. Automotive exterior materials	- Accelerated exposure	- SAE J 1885 Rev. MAR 2005 - SAE J 2412 Rev. MAY 2004 - FLTM BO 116-01 Date 2018 03 12 ISO 105-B06:1998
42. Textiles	- Artificial weathering  - Colour fastness	- GMW 3414 April 2002  - ISO 105-B02:2014 - ISO 105-B06:1998
43. Plastics	- Exposure to laboratory light sources	- ISO 4892-2:2013
44. Interior automotive materials	- Fogging characteristics	- SAE J1756 Rev. AUG 2006
45. Non-metallic materials	- Fogging	- TSM 0503G, Class C2 rev.8 (Nov.2011) Method B

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Automotive parts field 46. Automotive bodycloth, vinyl, leather, and the snagging of automotive bodycloth	- Resistance to abrasion	- SAE J 948 Rev. DEC 2003
47. Trim Materials	- Resistance to scuffing	- SAE J365 Rev. APR 2004
48. Organic coatings	- Abrasion resistance	- ASTM D 4060-10 - ASTM D 4060-14
49. Charge Air Cooler	- Pressure Cycle Test	- Ford Engineering Specification ESJB3G-6K775-AA

Issue Date 19<sup>th</sup> November B.E. 2562 (2019)

(Signature)

(Mr. Verakit Rantakittanawat)

Deputy Secretary - General

For Secretary - General

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Translation Note: In the event of doubt or misunderstanding, the original in Thai shall be the authoritative.