

Deutsche Akkreditierungsstelle GmbH

Annex to the Accreditation Certificate D-PL-11097-02-02 according to DIN EN ISO/IEC 17025:2005

Period of validity: 2018-02-09 to 2021-09-15

Date of issue: 2018-02-09

Holder of certificate:

TÜV Rheinland (Shanghai) Co., Ltd.
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Tests in the fields:

Safety of Electrical Appliance, Automotive Components

Within the testing field(s)/area(s) marked with *, the laboratory is permitted, without being required to inform or obtain prior approval from DAkkS, to use standard test methods listed here with different issue dates or revision status updates.

Department	Standard / in house procedure / Version	Title of standard or in house procedure (deviations / modifications of standard)	Test area / reductions
Household Appliances	IEC 60335-1:2013 EN 60335-1:2012+A11 EN 60335-1:2002 +A1 + A11 + A2 + A12 + A13 + A14 + A15 DIN EN 60335-1:2012 VDE 0700-1:2012	Household and similar electrical appliances – Safety – Part 1: General requirements.	*

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Household Appliances	IEC 60335-2-77:2002 EN 60335-2-77:2010 DIN EN 60335-2-77:2011 VDE 0700-77:2011	Household and similar electrical appliances – Safety – Part 2-77: Particular requirements for pedestrian controlled mains-operated lawnmowers.	*
Household Appliances	IEC 60335-2-91:2002 IEC 60335-2-91:2008 EN 60335-2-91: 2003 DIN EN 60335-2-91:2004 VDE 0700-91:2004 EN 50636-2-91: 2014 DIN EN 50636-2-91: 2014 VDE 0700-91:2014	Household and similar electrical appliances – Safety – Part 2-91: Particular requirements for walk-behind and hand-held lawn trimmers and lawn edge trimmers.	*
Household Appliances	IEC 60335-2-92:2002 EN 60335-2-92:2005 DIN EN 60335-2-92:2004 VDE 0700-92:2006 EN 50636-2-92:2014 DIN EN 50636-2-92:2014 VDE 0700-92:2014	Household and similar electrical appliances – Safety – Part 2-92: Particular requirements for pedestrian-controlled mains-operated lawn scarifiers and aerators.	*
Household Appliances	IEC 60335-2-94:2008 prEN 60335-2-94:2009 E DIN EN 60335-2-94:2010 E VDE 0700-94:2010 EN 50636-2-94:2014 DIN EN 50636-2-94:2014 VDE 0700-94:2014	Household and similar electrical appliances – Safety – Part 2-94: Particular requirements for scissors type grass shears.	*
Household Appliances	IEC 60335-2-100:2002 prEN 60335-2-100:2010 E DIN EN 60335-2-100:2010 E VDE 0700-100:2010 EN 50636-2-100:2014 DIN EN 50636-2-100:2014 VDE 0700-100:2014	Household and similar electrical appliances – Safety – Part 2-100: Particular requirements for hand-held mains-operated garden blowers, vacuums and blower vacuums.	*
Household Appliances	IEC 60335-2-107:2012 EN 50636-2-107: 2015 DIN EN 50636-2-107: 2016 VDE 0700-107:2016	Household and similar electrical appliances – Safety – Part 2-107: Particular requirements for robotic battery powered electrical lawnmowers.	*

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Safety of Machinery	IEC 60204-1:2005 + A1:2008 EN 60204-1:2006 + A1:2009 DIN EN 60204-1:2007 VDE 0113-1:2007	Safety of machinery – Electrical equipment of machines – Part 1: General requirements.	*
Safety of Machinery	IEC 60204-32:2008 EN 60204-32:2008 DIN EN 60204-32:2009 VDE 0113-32:2009	Safety of machinery – Electrical equipment of machines – Part 32: Requirements for hoisting machines.	*
Safety of Machinery	EN 12601:2010 DIN EN 12601:2011	Reciprocating internal combustion engine driven generating sets – Safety.	*
Electric Power Tools	IEC 60745-1:2006 EN 60745-1:2009 + A11 DIN EN 60745-1:2010 VDE 0740-1:2010	Hand-held motor-operated electric tools – Safety – Part 1: General requirements.	*
Electric Power Tools	IEC 60745-2-1:2006 + A1:2008 EN 60745-2-1:2010 DIN EN 60745-2-1:2011 VDE 0740-2-1:2011	Hand-held motor-operated electric tools – Safety – Part 2-1: Particular requirements for drills and impact drills.	*
Electric Power Tools	IEC 60745-2-2:2006 + A1:2008 EN 60745-2-2:2010 DIN EN 60745-2-2:2011 VDE 0740-2-2:2011	Hand-held motor-operated electric tools – Safety – Part 2-2: Particular requirements for screwdrivers and impact wrenches.	*
Electric Power Tools	IEC 60745-2-3:2011 + A2:2012 EN 60745-2-3:2011+A2+A11+A12+A13 DIN EN 60745-2-3:2012 VDE 0740-2-3:2012	Hand-held motor-operated electric tools – Safety – Part 2-3: Particular requirements for grinders, polishers and disk-type sanders.	*

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Electric Power Tools	IEC 60745-2-4:2006 + A1:2008 EN 60745-2-4:2009 + A11:2011 DIN EN 60745-2-4:2012 VDE 0740-2-4:2012	Hand-held motor-operated electric tools – Safety – Part 2-4: Particular requirements for sanders and polishers other than disk type.	*
Electric Power Tools	IEC 60745-2-5:2010 EN 60745-2-5:2010 DIN EN 60745-2-5:2011 VDE 0740-2-5:2011	Hand-held motor-operated electric tools – Safety – Part 2-5: Particular requirements for circular saws.	*
Electric Power Tools	IEC 60745-2-6:2005 + A1 + A2:2008 EN 60745-2-6:2010 DIN EN 60745-2-6:2011 VDE 0740-2-6:2011	Hand-held motor-operated electric tools – Safety – Part 2-6: Particular requirements for hammers.	*
Electric Power Tools	IEC 60745-2-8:2008 EN 60745-2-8:2009 DIN VDE 60745-2-8:2010 VDE 0740-2-8:2010	Hand-held motor-operated electric tools – Safety – Part 2-8: Particular requirements for shears and nibblers.	*
Electric Power Tools	IEC 60745-2-9:2008 EN 60745-2-9:2009 DIN EN 60745-2-9:2010 VDE 0740-2-9:2010	Hand-held motor-operated electric tools – Safety – Part 2-9: Particular requirements for tappers.	*
Electric Power Tools	IEC 60745-2-11:2008 EN 60745-2-11:2010 DIN EN 60745-2-11:2011 VDE 0740-2-11:2011	Hand-held motor-operated electric tools – Safety – Part 2-11: Particular requirements for reciprocating saws (jig and sabre saws).	*
Electric Power Tools	IEC 60745-2-13:2011 EN 60745-2-13:2009 + A1:2010 DIN EN 60745-2-13:2011 VDE 0740-2-13:2011	Hand-held motor-operated electric tools – Safety – Part 2-13: Particular requirements for chain saws.	*

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Electric Power Tools	IEC 60745-2-14:2010 EN 60745-2-14:2009 + A2:2010 DIN EN 60745-2-14:2011 VDE 0740-2-14:2011	Hand-held motor-operated electric tools – Safety – Part 2-14: Particular requirements for planers.	*
Electric Power Tools	IEC 60745-2-15:2009 EN60745-2-15:2009 + A1:2010 DIN EN 60745-2-15:2010 VDE 0740-2-15:2010	Hand-held motor-operated electric tools – Safety – Part 2-15: Particular requirements for hedge trimmers.	*
Electric Power Tools	IEC 60745-2-16:2008 EN 60745-2-16:2010 DIN EN 60745-2-16:2011 VDE 0740-2-16:2011	Hand-held motor-operated electric tools – Safety – Part 2-16: Particular requirements for tackers.	*
Electric Power Tools	IEC 60745-2-17:2010 EN 60745-2-17:2010 DIN EN 60745-2-17:2011 VDE 0740-2-17:2011	Hand-held motor-operated electric tools – Safety – Part 2-17: Particular requirements for routers and trimmers.	*
Electric Power Tools	IEC 60745-2-19:2010 EN 60745-2-19:2009 + A1:2010 DIN EN 60745-2-19:2011 VDE 0740-2-19:2011	Hand-held motor-operated electric tools – Safety – Part 2-19: Particular requirements for jointers.	*
Electric Power Tools	IEC 60745-2-20:2008 EN 60745-2-20:2009 DIN EN 60745-2-20:2010 VDE 0740-2-20:2010	Hand-held motor-operated electric tools – Safety – Part 2-20: Particular requirements for band saws.	*
Electric Power Tools	IEC 60745-2-22:2011 EN 60745-2-22:2011 DIN EN 60745-2-22:2012 VDE 0740-2-22:2012	Hand-held motor-operated electric tools – Safety – Part 2-22: Particular requirements for cut-off machines.	*
Electric Power Tools	IEC 60745-2-23:2012 EN 60745-2-23:2013 DIN EN 60745-2-23:2013 VDE 0740-2-23:2013	Hand-held motor-operated electric tools – Safety – Part 2-23: Particular requirements for die grinders and small rotary tools.	*

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Electric Power Tools	AS/NZS 3100: 2009+A1+A2+A3+A4	Approval and test specification – General requirements for electrical equipment	*
Electric Power Tools	AS/NZS 3160: 2009+A1	Approval and test specification – hand-held portable electric tools	*
Electric Power Tools	EN 50580:2012 DIN EN 50580:2012 VDE 0740-2-7:2012	Safety of hand-held electric motor operated tools- Particular requirements for spray guns.	*
Electric Power Tools	IEC 61029-1:1990 EN 61029-1:2009 + A11:2010 DIN EN 61029-1:2011 VDE 0740-500:2011	Safety of transportable motor-operated electric tools – Part 1: General requirements.	*
Electric Power Tools	IEC 61029-2-1:1993 + A1 + A2:2001 EN 61029-2-1:2012 DIN EN 61029-2-1:2010 VDE 0740-501:2010	Safety of transportable motor-operated electric tools – Part 2-1: Particular requirements for circular saw benches.	*
Electric Power Tools	IEC 61029-2-3:1993 + A1:2001 EN 61029-2-3:2011 DIN EN 61029-2-3:2012 VDE 0740-503:2012	Safety of transportable motor-operated electric tools – Part 2-3: Particular requirements for planers and thicknessers.	*
Electric Power Tools	IEC 61029-2-4:1993 + A1:2001 EN 61029-2-4:2011 DIN EN 61029-2-4:2011 VDE 0740-504:2011	Safety of transportable motor-operated electric tools – Part 2-4: Particular requirements for bench grinders.	*
Electric Power Tools	IEC 61029-2-5:1993 + A1:2001 EN 61029-2-5:2011 DIN EN 61029-2-5:2012 VDE 0740-505:2012	Safety of transportable motor-operated electric tools – Part 2-5: Particular requirements for band saws.	*
Electric Power Tools	IEC 61029-2-6:1993 EN 61029-2-6:2010 DIN EN 61029-2-5:2011 VDE 0740-506:2011	Safety of transportable motor-operated electric tools – Part 2-6: Particular requirements for diamond drills with water supply.	*

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Electric Power Tools	IEC 61029-2-8:1999 + A1:2001 EN 61029-2-8:2010 DIN EN 61029-2-8:2010 VDE 0740-508:2010	Safety of transportable motor-operated electric tools – Part 2: Particular requirements for single spindle vertical moulders.	*
Electric Power Tools	IEC 61029-2-9:1995 EN 61029-2-9:2012 DIN EN 61029-2-9:2010 VDE 0740-509:2010	Safety of transportable motor-operated electric tools – Part 2-9: Particular requirements for mitre saws.	*
Electric Power Tools	IEC 61029-2-10:1995 EN 61029-2-10:2010 DIN EN 61029-2-10:2010 VDE 0740-510:2010	Safety of transportable motor-operated electric tools – Part 2-10: Particular requirements for cutting-off grinders.	*
Electric Power Tools	IEC 61029-2-11:2001 EN 61029-2-11:2012 DIN EN 61029-2-11:2010 VDE 0740-511:2010	Safety of transportable motor-operated electric tools – Part 2-11: Particular requirements for combined mitre and bench saws.	*
Welding Equipment	IEC 60974-1:2012 EN 60974-1:2012 DIN EN 60974-1:2006 VDE 0544-1:2006	Arc welding equipment – Part 1: Welding power sources.	*
Welding Equipment	IEC 60974-6:2010 EN 60974-6:2011 DIN EN 60974-6:2011 VDE 0544-6:2011	Arc welding equipment – Part 6: Limited duty manual metal arc welding power sources.	*
Welding Equipment	ISO 669:2000 DIN ISO 669:2001	Resistance welding equipment – Mechanical and electrical requirements.	* Limitation: Excluding clause 8.
Medical Equipment	IEC 60601-1:1988 + A1 + A2 EN 60601-1:1990 + A1 + A2 DIN EN 60601-1:1996 VDE 0750-1:1996	Medical electrical equipment – Part 1: General requirements for safety.	*

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Medical Equipment	IEC 60601-1:2005 + A1 EN 60601-1:2006 + AC +A11+A1+A12 DIN EN 60601-1:2013 VDE 0750-1:2013	Medical electrical equipment – Part 1: General requirements for basic safety and essential performance.	*
Medical Equipment	IEC 60601-1:2005 + Cor. : 2006+Cor. : 2007+A1 :2012 EN 60601-1:2006 + Cor.:2010 + A1 :2013 DIN EN 60601-1:2013 VDE 0750-1-1:2013	Medical electrical equipment – Part 1: General requirements for basic safety and essential performance.	
Medical Equipment	IEC 60601-1-1:2001 EN 60601-1-1:2001 DIN EN 60601-1-1:2002 VDE 0750-1-1:2002	Medical electrical equipment – Part 1-1: General requirements for safety – Collateral standard: Safety requirements for medical electrical systems.	*
Medical Equipment	IEC 60601-1-3:1994 EN 60601-1-3:1994 DIN EN 60601-1-3:1995 VDE 0750-1-3:1995	Medical electrical equipment – Part 1: General requirements for safety – 3. Collateral standard: General requirements for radiation protection in diagnostic X-ray equipment.	*
Medical Equipment	IEC 60601-1-3:2008+A1 EN 60601-1-3:2008 +A1+A11 DIN EN 60601-1-3:2014 VDE 0750-1-3:2014	Medical electrical equipment – Part 1-3: General requirements for basic safety and essential performance – Collateral Standard: Radiation protection in diagnostic X-ray equipment.	*
Medical Equipment	IEC 60601-1-6:2010+A1 EN 60601-1-6:2010+A1 DIN EN 60601-1-6:2016 VDE 0750-1-6:2016	Medical electrical equipment – Part 1-6: General requirements for basic safety and essential performance – Collateral standard: Usability.	*
Medical Equipment	IEC 60601-1-8:2012+A1 EN 60601-1- 8:2013+A1+A11 DIN EN 60601-1-8:2014 VDE 0750-1-6:2014	Medical electrical equipment – Part 1-8: General requirements for basic safety and essential performance – Collateral standard: Alarm System	*

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Medical Equipment	IEC 60601-1-11:2010 EN 60601-1-11:2010 DIN EN 60601-1-11:2011 VDE 0750-1-11:2011	Medical electrical equipment – Part 1-11: General requirements for basic safety and essential performance – Collateral standard: Requirements for medical electrical equipment and medical electrical systems used in the home healthcare environment.	*
Medical Equipment	IEC 60601-1-11:2015 EN 60601-1-11:2015 DIN EN 60601-1-11:2016 VDE 0750-1-11:2016	Medical electrical equipment – Part 1-11: General requirements for basic safety and essential performance – Collateral standard: Requirements for medical electrical equipment and medical electrical systems used in the home healthcare environment.	*
Medical Equipment	IEC 60601-2-7:1998 EN 60601-2-7:1998 DIN EN 60601-2-7:2000 VDE 0750-2-7:2000	Medical electrical equipment – Part 2-7: Particular requirements for the safety of high-voltage generators of diagnostic X-ray generators.	*
Medical Equipment	IEC 60601-2-10:1987 + A1 EN 60601-2-10:2000 + A1 DIN EN 60601-2-10:2003 VDE 0750-2-10:2003	Medical electrical equipment – Part 2-10: Particular requirements for the safety of nerve and muscle stimulators.	*
Medical Equipment	IEC 60601-2-10:1987 + A1 + C1 EN 60601-2-10:2000 + A1 DIN EN 60601-2-10:2003 VDE 0750-2-10:2003	Medical electrical equipment – Part 2-10: Particular requirements for the safety of nerve and muscle stimulators.	*
Medical Equipment	IEC 60601-2-10:2012+A1	Medical electrical equipment – Part 2-10: Particular requirements for the basic safety and essential performance of nerve and muscle stimulators.	*
Medical Equipment	IEC 60601-2-13:2003 + A1 EN 60601-2-13:2006 + A1 DIN EN 60601-2-13:2007 VDE 0750-2-13:2007	Medical electrical equipment – Part 2-13: Particular requirements for the safety and essential performance of anaesthetic systems.	*

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Medical Equipment	ISO 80601-2-13:2011+A1 EN ISO 80601-2-13:2012 DIN EN ISO 80601-2-13:2013 VDE 0750-2-13: 2013	Medical electrical equipment – Part 2-13: Particular requirements for basic safety and essential performance of an anaesthetic workstation.	*
Medical Equipment	IEC 60601-2-18:1996 + A1 EN 60601-2-18:1996 + A1 DIN EN 60601-2-18:2001 VDE 0750-2-18:2001	Medical electrical equipment – Part 2-18: Particular requirements for the safety of endoscopic equipment.	*
Medical Equipment	IEC 60601-2-18:2009	Medical electrical equipment – Part 2-18: Particular requirements for basic safety and essential performance of endoscopic equipment.	* Excluding the test with respect to HF-surgical equipment according to clause 201.11.101.2.
Medical Equipment	IEC 60601-2-22:1995 EN 60601-2-22:1996 DIN EN 60601-2-22:1996 VDE 0750-2-22:1996	Medical electrical equipment – Part 2-22: Particular requirements for the safety of diagnostic and therapeutic laser equipment.	*
Medical Equipment	IEC 60601-2-22:2012+A1	Medical electrical equipment – Part 2-22: Particular requirements for basic safety and essential performance of surgical, cosmetic, therapeutic and diagnostic laser equipment.	*
Medical Equipment	IEC 60601-2-25:1993 + A1 EN 60601-2-25:1995 + A1 DIN EN 60601-2-25:2001 VDE 0750-2-25:2001	Medical electrical equipment – Part 2-25: Particular requirements for the safety of electrocardiographs.	*
Medical Equipment	IEC 60601-2-25:2011	Medical electrical equipment –Part 2-25: Particular requirements for basic safety and essential performance of electrocardiographs.	* Excluding the test with respect to HF-surgical equipment according to clause 202.6.2.101
Medical Equipment	IEC 60601-2-27:2005 EN 60601-2-27:2006 DIN EN 60601-2-27:2006 VDE 0750-2-27:2006	Medical electrical equipment – Part 2-27: Particular requirements for the safety, including essential performance, of electrocardiographic monitoring equipment.	*

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Medical Equipment	IEC 60601-2-27:2012	Medical electrical equipment – Part 2-27: Particular requirements for the basic safety and essential performance of electrocardiographic monitoring equipment; Corrigendum 1	* Excluding the test with respect to HF-surgical equipment according to clause 202.6.2.101.
Medical Equipment	IEC 60601-2-28:1993 EN 60601-2-28:1993 DIN EN 60601-2-28:1995 VDE 0750-2-28:1995	Medical electrical equipment – Part 2-28: Particular requirements for the safety of X-ray source assemblies and X-ray tube assemblies for medical diagnosis.	*
Medical Equipment	IEC 60601-2-28:2010 EN 60601-2-28:2010 DIN EN 60601-2-28:2010 VDE 0750-2-28:2010	Medical electrical equipment – Part 2-28: Particular requirements for the basic safety and essential performance of X-ray tube assemblies for medical diagnosis.	*
Medical Equipment	IEC 60601-2-30:1999 EN 60601-2-30:2000 DIN EN 60601-2-30:2000 VDE 0750-2-30:2000	Medical electrical equipment – Part 2-30: Particular requirements for the safety, including essential performance, of automatic cycling non-invasive blood pressure monitoring equipment.	*
Medical Equipment	IEC 80601-2-30:2009+A1 EN 80601-2-30:2010+A1 DIN EN 80601-2-30:2016 VDE 0750-2-30:2016	Medical electrical equipment - Part 2-30: Particular requirements for basic safety and essential performance of automated non-invasive sphygmomanometers.	* Excluding the test with respect to HF-surgical equipment according to clause 202.6.2.101.
Medical Equipment	IEC 60601-2-32:1994 EN 60601-2-32:1994 DIN EN 60601-2-32:1995 VDE 0750-2-32:1995	Medical electrical equipment – Part 2: Particular requirements for the safety of associated equipment of X-ray equipment.	*
Medical Equipment	IEC 60601-2-37:2001 + A1 + A2 EN 60601-2-37:2001 + A1 + A2+A11 DIN EN 60601-2-37:2005 VDE 0750-2-37:2005	Medical electrical equipment – Part 2-37: Particular requirements for the safety of ultrasonic medical diagnostic and monitoring equipment.	*

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Medical Equipment	IEC 60601-2-37:2007+A1 EN 60601-2-37:2008+A1+A11 DIN EN 60601-2-37:2016 VDE 0750-2-37:2016	Medical electrical equipment – Part 2-37: Particular requirements for the basic safety and essential performance of ultrasonic medical diagnostic and monitoring equipment.	*
Medical Equipment	IEC 60601-2-38:1996 + A1 EN 60601-2-38:1996 + A1 DIN EN 60601-2-38:2001 VDE 0750-2-38:2001	Medical electrical equipment – Part 2-38: Particular requirements for the safety of electrically operated hospital beds.	*
Medical Equipment	IEC 60601-2-41:2000 EN 60601-2-41:2000 DIN EN 60601-2-41:2000 VDE 0750-2-41:2000	Medical electrical equipment – Part 2-41: Particular requirements for the safety of surgical luminaires and luminaires for diagnosis.	*
Medical Equipment	IEC 60601-2-41:2009+A1 EN 60601-2-41:2009+A1+A11 DIN EN 60601-2-41:2016 VDE 0750-2-41:2016	Medical electrical equipment – Part 2-41: Particular requirements for basic safety and essential performance of surgical luminaires and luminaires for diagnosis.	*
Medical Equipment	IEC 60601-2-43:2000 EN 60601-2-43:2000 DIN EN 60601-2-43:2000 VDE 0750-2-43:2000	Medical electrical equipment – Part 2-43: Particular requirements for the safety of X-ray equipment for interventional procedures.	*
Medical Equipment	IEC 60601-2-43:2010+A1 EN 60601-2-43:2010 DIN EN 60601-2-43:2011+A1 VDE 0750-2-43:2011+A1	Medical electrical equipment – Part 2-43: Particular requirements for basic safety and essential performance of X-ray equipment for interventional procedures.	*
Medical Equipment	IEC 60601-2-44:2001 + A1 EN 60601-2-44:2001 + A1 DIN EN 60601-2-44:2004 VDE 0750-2-44:2004	Medical electrical equipment – Part 2-44: Particular requirements for the safety of X-ray equipment for computed tomography.	*

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Medical Equipment	IEC 60601-2-44:2009+A1+A2 EN 60601-2-44:2009+A1+A2+A11 DIN EN 60601-2-44:2017 VDE 0750-2-44:2017	Medical electrical equipment – Part 2-44: Particular requirements for the basic safety and essential performance of X-ray equipment for computed tomography.	*
Medical Equipment	IEC 60601-2-46:1998 EN 60601-2-46:1998 DIN EN 60601-2-46:1999 VDE 0750-2-46:1999	Medical electrical equipment -- Part 2-46: Particular requirements for the safety of operating tables.	* Excluding the EMC-Test according to clause 36.102 (HF-Surgical knives).
Medical Equipment	IEC 60601-2-46:2010 EN 60601-2-46:2011 DIN EN 60601-2-46:2011 VDE 0750-2-46:2011	Medical electrical equipment – Part 2-46: Particular requirements for the basic safety and essential performance of operating tables.	* Excluding the test with respect to HF-surgical equipment according to clause 202.6.2.2.1.101.
Medical Equipment	IEC 60601-2-46:2016	Medical electrical equipment – Part 2-46: Particular requirements for the basic safety and essential performance of operating tables.	* Excluding the test with respect to HF-surgical equipment according to clause 202.6.2.2.1.101.
Medical Equipment	IEC 60601-2-49:2001 EN 60601-2-49:2001 DIN EN 60601-2-49:2002 VDE 0750-2-49:2002	Medical electrical equipment – Part 2-49: Particular requirements for the safety of multifunction patient monitoring equipment.	*
Medical Equipment	IEC 60601-2-49:2011 EN 60601-2-49:2015 DIN EN 60601-2-49:2016 VDE 0750-2-49:2016	Medical electrical equipment – Part 2-49: Particular requirements for the basic safety and essential performance of multifunction patient monitoring equipment.	* Excluding the test with respect to HF-surgical equipment according to clause 202.6.2.101.
Medical Equipment	IEC 60601-2-51:2005 EN 60601-2-51:2003 DIN EN 60601-2-51:2004 VDE 0750-2-51:2004	Medical electrical equipment – Part 2-51: Particular requirements for safety, including essential performance, of recording and analysing single channel and multichannel electrocardiographs.	*

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Medical Equipment	IEC 60601-2-52:2009+A1 EN 60601-2-52:2010 +A1 DIN EN 60601-2-52:2010 VDE 0750-2-52:2010	Medical electrical equipment – Part 2-52: Particular requirements for basic safety and essential performance of medical beds.	*
Medical Equipment	IEC 60601-2-54:2009+A1 EN 60601-2-54:2009+A1 DIN EN 60601-2-54:2016 VDE 0750-2-54:2016	Medical electrical equipment – Part 2-54: Particular requirements for the basic safety and essential performance of X-ray equipment for radiography and radioscopy.	*
Automotive Components	IEC 60512-1-1:2002 EN 60512-1-1:2002 DIN EN 60512-1-1:2003	Connectors for electronic equipment – Tests and measurements – Part 1-1: General examination – Test 1a: Visual examination.	*
Automotive Components	IEC 60512-1-2:2002 EN 60512-1-2:2002 DIN EN 60512-1-2:2003	Connectors for electronic equipment – Tests and measurements – Part 1-2: General examination – Test 1b: Examination of dimension and mass.	*
Automotive Components	IEC 60512-1-3:1997 EN 60512-1-3:1997 DIN EN 60512-1-3:1998	Electromechanical components for electronic equipment – Basic testing procedures and measuring methods – Part 1: General examination – Section 3: Test 1c: Electrical engagement length.	*
Automotive Components	IEC 60512-1-4:1997 + C1:2000 EN 60512-1-4:1997 DIN EN 60512-1-4:1998	Electromechanical components for electronic equipment – Basic testing procedures and measuring methods – Part 1: General – Section 4: Test 1d: Contact protection effectiveness (scoop-proof).	*
Automotive Components	IEC 60512-2-1 2002 EN 60512-2-1:2002 DIN EN 60512-2-1:2003	Connectors for electronic equipment – Tests and measurements – Part 2-1: Electrical continuity and contact resistance tests – Test 2a: Contact resistance; Millivolt level method.	*

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Automotive Components	IEC 60512-2-2:2003 EN 60512-2-2:2003 DIN EN 60512-2-2:2004	Connectors for electronic equipment – Tests and measurements – Part 2-2: Electrical continuity and contact resistance tests – Test 2b: Contact resistance – Specified test current method.	*
Automotive Components	IEC 60512-3-1:2002 EN 60512-3-1:2002 DIN EN 60512-3-1:2003	Connectors for electronic equipment – Tests and measurements – Part 3-1: Insulation tests – Test 3a: Insulation resistance.	*
Automotive Components	IEC 60512-5-1:2002 EN 60512-5-1:2002 DIN EN 60512-5-1:2003	Connectors for electronic equipment – Test and measurements – Part 5-1: Current-carrying capacity tests – Test 5a: Temperature rise.	*
Automotive Components	IEC 60512-5-2:2002 EN 60512-5-2:2002 DIN EN 60512-5-2:2003	Connectors for electronic equipment – Test and measurements – Part 5-2: Current-carrying capacity tests – Test 5b: Current-temperature derating.	*
Automotive Components	IEC 60512-13-2:2006 + C1:2008 EN 60512-13-2:2006 DIN EN 60512-13-2:2006	Connectors for electronic equipment – Tests and measurements – Part 13-2: Mechanical operation tests – Test 13b: Insertion and withdrawal forces.	*
Automotive Components	IEC 60512-13-5:2006 + C1:2008 EN 60512-13-5:2006 DIN EN 60512-13-5:2008	Connectors for electronic equipment – Tests and measurements – Part 13-5: Mechanical operation tests – Test 13e: Polarizing and keying method.	*
Automotive Components	IEC 60811-1-1:1993 + A1:2001	Insulating and sheathing materials of electric cables - Common test methods – Part 11: General application – Measurement of thickness and overall dimensions – Test for determining the mechanical properties.	*

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Automotive Components	IEC 60068-2-1:2007 EN 60068-2-1:2007 DIN EN 60068-2-1:2008 VDE 0468-2-1:2008	Environmental testing – Part 2-1: Tests – Test A: Cold.	*
Automotive Components	IEC 60068-2-2:2007 EN 60068-2-2:2007 DIN EN 60068-2-2:2008 VDE 0468-2-2:2008	Environmental testing – Part 2-2: Tests – Test B: Dry heat.	*
Automotive Components	IEC 60068-2-6:2007 EN 60068-2-6:2008 DIN EN 60068-2-6:2008 VDE 0468-2-6:2008	Environmental testing – Part 2-6: Tests – Test Fc: Vibration (sinusoidal).	*
Automotive Components	IEC 60068-2-11:1981 EN 60068-2-11:1999 DIN EN 60068-2-11:2000	Environmental Testing – Part 2: Tests; Test Ka: Salt Mist.	*
Automotive Components	IEC 60068-2-14:2009 EN 60068-2-14:2009 DIN EN 60068-2-14:2010 VDE 0468-2-14:2010	Environmental Testing – Part 2-14: Tests – Test N: Change of temperature.	*
Automotive Components	IEC 60068-2-27:2008 EN 60068-2-27:2009 DIN EN 60068-2-27:2010	Environmental Testing – Part 2-27: Tests – Test Ea and guidance: Shock.	*
Automotive Components	IEC 60068-2-30:2005 EN 60068-2-30:2005 DIN EN 60068-2-30:2006	Environmental Testing – Part 2-30: Tests – Test Db: Damp heat, cyclic (12 h + 12 h cycle).	*
Automotive Components	IEC 60068-2-64:2008 EN 60068-2-64:2008 DIN EN 60068-2-64:2009 VDE 0468-2-64:2009	Environmental Testing – Part 2-64: Tests – Test Fh: Vibration, broadband random and guidance.	*

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Automotive Components	EN 61373:2010	Railway applications – Rolling stock equipment – Shock and vibration tests	* Limitation: Excluding the following test: Clause 10.5: Excluding axle mounted parts (100 g/6ms)
Automotive Components	VW 60306:2005-11-01	Electric wiring in motor vehicles – Single-wire, unshielded.	Limitation: Excluding the fhe following tests: a) Clause 8.2.3: Viscosity; b) Clause 8.2.4: Temperature at 5 % mass loss; c) Clause 8.2.5: Ignition residue; d) Clause 8.2.11: Micro hardness; e) Clause 8.6.15: Ozone resistance; f) Clause 8.7: Mycological resistance.
Automotive Components	VW 60330:2013-12	Crimp connections – Solderless electrical connections.	

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Automotive Components	VW 75174:2010-04-01	Motor vehicle connectors – Test specification.	Limitation: Excluding the following tests: a) PG16: Friction corrosion; b) PG19/B19.4: Industrial climate; c) PG22B: Chemical resistance, extended test; d) PG23: Water leak tightness; e) PG24: Impenetrability to paint; f) PG29: Retention force of the blind plugs.
Automotive Components	VW 75174-2:2008-01	Vehicle Contacts – Slow Motion Tests.	
Automotive Components	VW 75212:2007-10	Dimensioning of Cables and Fuses in Motor Vehicles.	
Automotive Components	VW 80000: 2013-06	Electric and Electronic Components in Vehicles up to 3,5 t – General Requirements, Test Conditions and Tests. Limitation:	Limitation: Excluding the following tests: a) Clause 4.13: E-13 Pin interruption; b) Clause 8.2: M-02 Stone impact test; c) Clause 9.12: K-12 Temperature shock with splash water; d) Clause 9.17: K-17 Sun radiation; e) Clause 9.18: K-18 Harmful gas test.

Department	Standard / in house procedure / Version	Title of standard or in house procedure (deviations / modifications of standard)	Test area / reductions
Automotive Components	VW 80101:2009-03	Electrical and Electronic Assemblies in Motor Vehicles – General Test Conditions.	Limitation: Excluding the following tests: a) Clause 3.20: Electromagnetic compatibility (EMC); b) Clause 5.4: Resistance to open air weathering; c) Clause 5.5: Resistance to environmental factors; d) Clause 5.6.1: Splash water test.
Automotive Components	VW 80102:2009-06	Electrical Controls (Switches, Tip Switches) – General Requirements.	Limitation: Excluding the following tests: a) Clause 2.2.4: Symbols; b) Clause 2.2.5: Styling; c) Clause 2.10: Materials.
Automotive Components	VW 80106: 2008-06	Plug Connection on and in Electrical and Electronic Components in Vehicles – Requirements.	Limitation: Excluding the following test: Clause 2.6: Galvanic corrosion.

Department	Standard / in house procedure / Version	Title of standard or in house procedure (deviations / modifications of standard)	Test area / reductions
Automotive Components	LV 112-1:2014-04	Electric wiring in motor vehicles; Single-wire, unshielded.	Limitation: Excluding the following tests: a) Clause 9.2.2: Viscosity; b) Clause 9.2.3: Temperature-gravimetric analysis; c) Clause 9.2.4: Dynamic difference thermo analysis; d) Clause 9.2.10: Micro hardness; e) Clause 9.6.16: Ozone resistance; f) Clause 9.7: Mycological resistance.
Automotive Components	EP 81075.20:2007-09	Karosserie-Abdichtung – Dichtheitsversuch (Sprühraum und Fahrversuch).	Limitation: Only components can be tested with an area not bigger than 30 x 30 cm.
Automotive Components	ISO 6722-1:2011	Road vehicles – 60 V and 600 V single-core cables – Part 1: Dimensions, test methods and requirements for copper conductor cables.	* Limitation: Excluding the following tests: a) Clause 5.6: Insulation faults; b) Clause 5.19: Resistance to ozone; c) Clause 5.22: Resistance to flame propagation.

Department	Standard / in house procedure / Version	Title of standard or in house procedure (deviations / modifications of standard)	Test area / reductions
Automotive Components	ISO 8820-1:2008 DIN ISO 8820-1:2011	Road Vehicles – Fuse-links – Part 1: Definitions and general test requirements.	* Limitation: Excluding the following tests: a) Transient current cycling test; b) Breaking capacity test.
Automotive Components	ISO 8820-3:2010	Road Vehicles – Fuse-links – Part 3: Fuse-links with tabs (blade type) Type C (medium), Type E (high current) and Type F (miniature).	* Limitation: Excluding the following tests: a) Transient current cycling test; b) Breaking capacity test.
Automotive Components	ISO 8820-4:2010	Road Vehicles – Fuse-links – Part 4: Fuse-links with female contacts (type A) and bolt-in contacts (type B) and their test fixtures.	* Limitation: Excluding the following tests: a) Transient current cycling test; b) Breaking capacity test.
Automotive Components	ISO 8820-6:2007 DIN ISO 8820-6:2011	Road Vehicles – Fuse-links – Part 6: Single-bolt fuse-links	* Limitation: Excluding the following tests: a) Transient current cycling test; b) Breaking capacity test.
Automotive Components	DIN 40050-9:1993	Road vehicles – Degrees of protection (IP-code) – Protection against foreign objects; water and contact; electrical equipment.	* Limitation: Except IPX2.

Department	Standard / in house procedure / Version	Title of standard or in house procedure (deviations / modifications of standard)	Test area / reductions
Automotive Components	ISO 20653:2006	Road vehicles — Degrees of protection (IP-Code) — Protection of electrical equipment against foreign objects, water and access.	*
Automotive Components	EN 50155: 2007	Railway applications - Electronic equipment used on rolling stock	* Limitation: Excluding the following tests: a) Clause 12.2.7: Surge, ESD, Burst susceptibility, b) Clause 12.2.8: Radio interference test
Automotive Components	IEC 60571: 2012	Electronic equipment used on rail vehicles	* Limitation: Excluding the following tests: a) Clause 12.2.8: Surge, ESD, Burst susceptibility, b) Clause 12.2.9: Radio interference test
Automotive Components	TL 82342: 2013-06	Heat-Shrink Tubing: Functional requirements	*
Automotive Components	VW 60360-1: 2010-08	Protection Systems for Wiring Harness in Motor Vehicles; Adhesive Tapes; Test Guideline	Limitation: Excluding the following tests: a) Clause 5.5.7: Mycological test; b) Clause 5.5.8: Ozone resistance; c) Clause 5.5.9: Heat protection; d) Clause 5.6: Environmental protection

Department	Standard / in house procedure / Version	Title of standard or in house procedure (deviations / modifications of standard)	Test area / reductions
Automotive Components	LV 312-3: 2015	Schutzsysteme für Leitungssätze in Kraftfahrzeugen; Schläuche; Prüfrichtlinie	Limitation: Excluding the following tests: a) Abschnitt 6.5.8: Steinschlagfestigkeit; b) Abschnitt 6.7.6: Ozonbeständigkeit; c) Abschnitt 6.9: Mykologische Prüfung; d) Abschnitt 6.10: Umweltschutz und Sicherheit;
Automotive Components	VW 60306-1: 2013-04	Electrical Wiring in Motor Vehicles – Part 1: Copper cable, single-Wire, unshielded	Limitation: Excluding the following tests: a) Clause 9.2.2: Viscosity; b) Clause 9.2.3: TGA; c) Clause 9.2.4: OSC; d) Clause 9.2.10: Microhardness; e) Clause 9.6.4: Determination of Derating f) Clause 9.6.16. Ozone resistance
Automotive Components	ISO 16750-2:2006	Road Vehicles Environmental conditions and test for electrical and electronic equipment part 2: Electrical loads	*
Automotive Components	ISO 16750-4:2006	Road Vehicles Environmental conditions and test for electrical and electronic equipment part 4: Climatic loads	* General Automotive standard (not EMC standard)
Automotive EMC	CISPR 25:2002	Radio disturbance characteristics for the protection of receivers used on board vehicles, boats, and on devices – Limits and methods of measurement	Limitation: Exclusion 5. Measurements of Emissions received by an antenna on the same vehicle 6.5 TEM Cell method

Department	Standard / in house procedure / Version	Title of standard or in house procedure (deviations / modifications of standard)	Test area / reductions
Automotive EMC	CISPR 25:2008	Vehicles, boats and internal combustion engines-Radio disturbance characteristics-Limits and methods of measurements for the protection of on-board receivers	Limitation: Exclusion 5. Measurements of Emissions received by an antenna on the same vehicle 6.5 TEM Cell method 6.6 Stripline method
Automotive EMC	ISO 10605:2001	Road vehicles - Test methods for electrical disturbances from electrostatic discharge	*
Automotive EMC	ISO 10605:2008	Road vehicles - Test methods for electrical disturbances from electrostatic discharge	*
Automotive EMC	ISO 11451-4:2006	Road vehicles - Vehicle test methods for electrical disturbances from narrowband radiated electromagnetic energy - Part 4: Bulk current injection (BCI)	*
Automotive EMC	ISO 11452-2:2004	Road vehicles - Component test methods for electrical disturbances from narrowband radiated electromagnetic energy - Part 2: Absorber-lined shielded enclosure	* Limitation: Frequency up to 3.2 GHz, $130\text{MHz} \leq f < 300\text{MHz}$, $E=150\text{V/m}$, $200\text{MHz} \leq f < 1\text{GHz}$. $E=200\text{V/m}$ $1\text{GHz} \leq f < 3.2\text{GHz}$. $E=75\text{V/m}$
Automotive EMC	ISO 11452-4:2005	Road vehicles - Component test methods for electrical disturbances from narrowband radiated electromagnetic energy - Part 4: Bulk current injection (BCI)	*
Automotive EMC	ISO 11452-4:2011	Road vehicles - Component test methods for electrical disturbances from narrowband radiated electromagnetic energy - Part 4: Bulk current injection (BCI)	* Limitation: Exclusion 6.2 TWC test method

Department	Standard / in house procedure / Version	Title of standard or in house procedure (deviations / modifications of standard)	Test area / reductions
Automotive EMC	ISO 11452-8:2007	Road vehicles Component test methods for electrical disturbances from narrowband radiated electromagnetic energy Part 8: Immunity to magnetic fields	*
Automotive EMC	ISO 11452-9:2012	Road vehicles Component test methods for electrical disturbances from narrowband radiated electromagnetic energy Part 9: Portable transmitters	* Limitation: Frequency up to 4.2 GHz
Automotive EMC	36-00-808:2004 (Renault standard)	Resistance to electrical disturbance and electromagnetic compatibility instructions concerning electrical ,electronic and pyrotechnic equipment	Limitation: Exclusion 6.2.3 No EQ/IC 09: Immunity to ignition high voltage. 6.2.4 EQ/IC11: Resistance to impulsive transient
Automotive EMC	28401NDS02[4]:2008 (NISSAN Standard)	EMC specifications of Electrical and electronic parts	Limitation: Exclusion 6.2.3 No EQ/IC 09: Immunity to ignition high voltage. 6.2.4 EQ/IC11: Resistance to impulsive transient
Automotive EMC	28401NDS02[5]:2010 (NISSAN Standard)	EMC specifications of Electrical and electronic parts	Limitation: Exclusion 6.2.3 No EQ/IC 09: Immunity to ignition high voltage. 6.2.4 EQ/IC11: Resistance to impulsive transient

Department	Standard / in house procedure / Version	Title of standard or in house procedure (deviations / modifications of standard)	Test area / reductions
Automotive EMC	PSA B21 7110:version C 2008 (PSA Standard)	Technical specifications concerning the environment of electronic and electrical equipment electrical characteristics	Limitation: Exclusion 6.2.3 EQ/IC 09:Immunity to ignition high/low voltage 6.3.2 EQ/IR 06:Immunity to radiated field in reverberation chamber
Automotive EMC	PSA B21 7110:version D 2012 (PSA Standard)	Technical specifications concerning the environment of electronic and electrical equipment electrical characteristics	Limitation: Exclusion 6.2.3 EQ/IC 09:Immunity to ignition high/low voltage 6.3.2 EQ/IR 06:Immunity to radiated field in reverberation chamber
Automotive EMC	62.21.627:2004 (MG Rover Standard)	Automotive electromagnetic compatibility(EMC)	Exclusion: 6.3 No TEM and stripline method No vehicle test
Automotive EMC	ES-XW7T-1A278-AC:2003 (Ford Standard)	Component and Subsystem Electromagnetic Compatibility Worldwide Requirements and Test Procedures	Limitation: Exclusion: 10.4 Requirements: 400-3100 MHz: RI 114 Band 6&7 11.3.2 Helmholtz Coil Method 12.0 Coupled Immunity RI 130, RI 150
Automotive EMC	EMC-CS-2009:2010 (Ford Standard)	Electromagnetic Compatibility Specification For Electrical/Electronic Components and Subsystems	Limitation: Exclusion: 10.4 Requirements: 400-3100 MHz: RI 114 Band 6&7 11.5.2.2 Reverberation method

Department	Standard / in house procedure / Version	Title of standard or in house procedure (deviations / modifications of standard)	Test area / reductions
Automotive EMC	MES PW67602A	Electromagnetic Compatibility (EMC) of electronic and electric components used for automobiles and specifies applicable tests and requirements	Limitation: RI 110:no trip late 7.6.1.5.1.2 ALSE method (bands 6 and 7) 7.6.1.5.1.3 Reverberation method
Automotive EMC	GWM3097:2006 (GM Standard)	General Specification for Electrical/Electronic Components and Subsystems, Electromagnetic Compatibility	Limitation: Exclusion 3.4.3 RI, Reverberation Chamber, Mode Tuning
Automotive EMC	GWM3097:2012 (GM Standard)	General Specification for Electrical/Electronic Components and Subsystems, Electromagnetic Compatibility	Limitation: Exclusion 3.4.3 RI, Reverberation Chamber, Mode Tuning 3.4.2 RI Anechoic Chamber, Radar Pulse,
Automotive EMC	DC11224:2007 (Chrysler Standard)	EMC Performance Requirements --- Components	Limitation: Exclusion: 7.5 TEM Cell Test,
Automotive EMC	ISO 7637-2:2004+A1	Road vehicles - Electrical disturbances from conduction and coupling - Part 2: Electrical transient conduction along supply lines only	*
Automotive EMC	ISO 7637-2:2011	Road vehicles - Electrical disturbances from conduction and coupling - Part 2: Electrical transient conduction along supply lines only	*
Automotive EMC	ISO 7637-3:2007	Road vehicles - Electrical disturbances from conduction and coupling - Part 3: Electrical transient transmission by capacitive and inductive coupling via lines other than supply lines	*
Automotive EMC	SAE J1113-4:2004	Immunity to Radiated Electromagnetic Fields Bulk Current Injection (BCI) Method	
Automotive EMC	SAE J1113-11: 2012	Immunity to Conducted Transients on Power Leads	

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Automotive EMC	SAE J1113-12:2006	Electrical Interference by Conduction and Coupling-Capacitive and Inductive Coupling via Lines Other than Supply Lines	
Automotive EMC	SAE J1113-13:2011	Electromagnetic Compatibility Measurement Procedure for Vehicle Components Part 13: Immunity to Electrostatic Discharge	
Automotive EMC	SAE J1113-21:2005	Electromagnetic Compatibility Measurement Procedure for Vehicle Components Part 21: Immunity to Electromagnetic Fields, 30 MHz to 18 GHz, Absorber-Lined Chamber	Limitation: Frequency up to 3.2 GHz, $130\text{MHz} \leq f < 300\text{MHz}$, $E=150\text{V/m}$, $200\text{MHz} \leq f < 1\text{GHz}$. $E=200\text{V/m}$, $1\text{GHz} \leq f < 3.2\text{GHz}$. $E=75\text{V/m}$
Automotive EMC	SAE J1113-41:2006	Limits and Methods of Measurement of Radio Disturbance Characteristics of Components and Modules for the Protection of Receivers Used on Board Vehicles	Limitation: No TEM cell method, components only
Automotive EMC	Fiat 7 Z0446:1995 (Fiat Standard)	Bench Test for Electromagnetic Susceptibility of Electronic System By Bulk Current Injection Method (Current Injection at Radio Frequency on Cable Harness)	
Automotive EMC	Fiat 9.90111/01: 2012 (Fiat Standard)	Electrical and EMC Performance Requirements – E/E Components	Limitation: Exclusion: 6.3 Magnetic Field Immunity Helmholtz Coil Method
Automotive EMC	TL 81000:2013	Electromagnetic Compatibility of Automotive Electronic Components	Limitation: No TEM testing; No stripline testing; No full vehicle test

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Automotive EMC	VW 80000:2009	Electric and Electronic Components in Motor Vehicles up to 3.5t General Requirement, Test Conditions and Tests	Limitation: Electrical tests only
Automotive EMC	GS 95024-2-1:2010	Electric and Electronic Components in Motor Vehicles Electrical requirements and testings	
Automotive EMC	GS 95024-2-2: 2011	Electric and Electronic Components in Motor Vehicles Electrical requirements and tests Additional requirements to GS 95024-2-1	
Automotive EMC	GS 95025-1:2012	Environmental requirements for electric and electronic equipment, EMC characteristics	Limitation: EQ/CI_02: Immunity to low ignition voltage