

<p><b>Clause / prescribed</b></p> <p>This report is based on EN 50580:2012 + A1:2013. This report has to be read in conjunction with the test report of 6047401.50A.</p>	<p>Observed</p>
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<p style="text-align: center;"><b>Safety of hand-held electric motor operated tools - Particular requirements for spray guns</b></p> <p><b>6 Environmental requirements</b></p> <p>This clause of Part 1 is applicable except as follows:</p> <p><b>6.1.2.4 Modification:</b></p> <p>The tool is suspended in such a way as to correspond to normal use.</p> <p><b>6.1.2.5 Addition:</b></p> <p>Spray guns are tested at no-load.</p> <p>The result to be used shall be the arithmetic mean, rounded off to the nearest decibel, of the values obtained from three consecutive tests.</p> <p><b>6.2.4.2 Location of the measurement</b></p> <p><i>Addition:</i></p> <p>Figure Z101 shows the position for spray guns.</p> <p><b>6.2.6.3 Operating conditions</b></p> <p><i>Modification:</i></p> <p style="text-align: center;"><b>Table Z101 – Operating conditions for spray guns</b></p> <table border="1" data-bbox="172 1283 1302 1496"> <tr> <td data-bbox="177 1290 408 1361"><b>Orientation</b></td> <td data-bbox="408 1290 1297 1361">Spray guns are tested at no load. The spray gun container shall be orientated up or down depending on type.</td> </tr> <tr> <td data-bbox="177 1361 408 1402"><b>Grip force</b></td> <td data-bbox="408 1361 1297 1402">Hold the machine with normal gripping force, avoiding excessive gripping force.</td> </tr> <tr> <td data-bbox="177 1402 408 1496"><b>Test cycle</b></td> <td data-bbox="408 1402 1297 1496">One test cycle is given when the tool is switched on for no load for more than 10 s and then switched off again. The measurement is conducted during 10 s within this period.</td> </tr> </table> <p>NOTE 1 It should be noted that even small differences in operating conditions can affect the vibration intensity.</p> <p>NOTE 2 The vibrations of the tool can be influenced by the operator, in particular the grip force has a considerable influence when the tool is very light.</p>	<b>Orientation</b>	Spray guns are tested at no load. The spray gun container shall be orientated up or down depending on type.	<b>Grip force</b>	Hold the machine with normal gripping force, avoiding excessive gripping force.	<b>Test cycle</b>	One test cycle is given when the tool is switched on for no load for more than 10 s and then switched off again. The measurement is conducted during 10 s within this period.	<p>N/A</p> <p>N/A</p> <p>N/A</p> <p>N/A</p> <p>N/A</p> <p>N/A</p>
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<b>Grip force</b>	Hold the machine with normal gripping force, avoiding excessive gripping force.						
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<b>6.2.7.2 Declaration of the vibration total value</b>  <i>Addition:</i>  The vibration total value $a_h$ of the handle and the uncertainty $K$ shall be declared.	N/A
<b>7 Classification</b>  This clause of Part 1 is applicable.	P
<b>8 Marking and instructions</b>  This clause of Part 1 is applicable except as follows:	
<b>8.12.2 a) Addition:</b>	P
101) Instruction not to use guns for spraying flammable materials.	P
102) Warning to be aware of any hazards presented by the material being sprayed and instruction to consult the markings on the container or the information supplied by the manufacturer of the material to be sprayed.	P
103) Instruction not to spray any material where the hazard is not known.	P
<b>8.12.2 b) Addition:</b>	P
101) Instruction to use appropriate personal protective equipment, such as dust mask.	P
<b>8.12.2 c) Addition:</b>	P
101) Instruction not to clean guns with flammable solvents.	P
<b>9 Protection against access to live parts</b>  This clause of Part 1 is applicable.	P
<b>10 Starting</b>  This clause of Part 1 is applicable.	P
<b>11 Input and current</b>  This clause of Part 1 is applicable.	P
<b>12 Heating</b>  This clause of Part 1 is applicable except as follows:	P

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<p><b>12.4 Replacement:</b></p> <p><i>The tool is fitted with the smallest nozzle recommended by the manufacturer. The tool is operated at the rated voltage or at the upper limit of the rated voltage range through continuous cycles spraying for one hour or until temperatures stabilise, whichever is achieved first. Each cycle consists of spraying water until the volume of the largest recommended container is empty followed by a 1 min "off" period. The combination of controls, if any, is adjusted so as to achieve maximum input during the periods of operation. The temperature rises are measured at the end of the last "on" period. At the manufacturer's option, the tool may also be operated continuously until thermal stabilisation.</i></p>	P
<p><b>13 Leakage current</b></p> <p>This clause of Part 1 is applicable.</p>	P
<p><b>14 Moisture resistance</b></p> <p>This clause of Part 1 is applicable.</p>	P
<p><b>15 Electric strength</b></p> <p>This clause of Part 1 is applicable.</p>	P
<p><b>16 Overload protection of transformers and associated circuits</b></p> <p>This clause of Part 1 is applicable.</p>	N/A
<p><b>17 Endurance</b></p> <p>This clause of Part 1 is applicable except as follows:</p>	P
<p><b>17.2 Replacement:</b></p> <p><i>The tool is fitted with the smallest nozzle recommended by the manufacturer. The tool is operated for 24 h of operation at a voltage equal to 1,1 times rated voltage, and then for 24 h at a supply voltage equal to 0,9 times rated voltage. The tool is operated through continuous cycles spraying. Each cycle</i></p>	P

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<p><i>consists of spraying water until the volume of the largest recommended container is empty followed by a 5 min "off" period. The combination of controls, if any, is adjusted so as to achieve maximum input during the periods of operation.</i></p>	P
<p><i>The tool may be switched on and off by means of a switch other than that incorporated in the tool.</i></p>	P
<p><i>During this test, if applicable, replacement of the carbon brushes is allowed, and the tool is oiled and greased as in normal use.</i></p>	P
<p><i>If the temperature rise of any part of the tool exceeds the temperature rise determined during the test of 12.1, forced cooling or rest periods are applied, the rest periods being excluded from the specified operating time.</i></p>	P
<p><i>During these tests, overload protection devices shall not operate.</i></p>	N/A
<p><b>18 Abnormal operation</b></p>	
<p>This clause of Part 1 is applicable.</p>	P
<p><b>19 Mechanical hazards</b></p>	
<p>This clause of Part 1 is applicable except as follows:</p>	P
<p><b>19.1 Addition:</b></p>	
<p>Spray guns where the material is ejected at high pressure shall be guarded at the nozzle from the side to prevent inadvertent contact with the orifice.</p>	P
<p><i>Compliance is checked by applying the test probe of Figure 101. With the longitudinal axis of the test probe perpendicular to the longitudinal axis of the nozzle, it shall not be possible to touch the orifice with the test probe.</i></p>	P
<p><b>20 Mechanical strength</b></p>	
<p>This clause of Part 1 is applicable except as follows:</p>	P
<p><b>20.3 Addition:</b></p>	
<p>A breakage of the container is disregarded.</p>	P
<p><b>21 Construction</b></p>	
<p>This clause of Part 1 is applicable except as follows:</p>	
<p><b>21.16 Replacement:</b></p>	
<p>Spray guns shall be so constructed that, in any position of the gun, their electrical insulation cannot be affected by liquids which might leak from containers, hoses, couplings and the like.</p>	P
<p><i>Compliance is checked by inspection.</i></p>	
<p><b>21.Z1</b> This clause of Part 1 is not applicable.</p>	P

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<b>22 Internal wiring</b>  This clause of Part 1 is applicable.	P
<b>23 Components</b>  This clause of Part 1 is applicable except as follows:	P
<b>23.1.11 Addition:</b>  For spray guns, reed-switches are allowed as mains switches.	P
<b>24 Supply connection and external flexible cords</b>  This clause of Part 1 is applicable.	P
<b>25 Terminals for external conductors</b>  This clause of Part 1 is applicable.	P
<b>26 Provision for earthing</b>  This clause of Part 1 is applicable.	N/A
<b>27 Screws and connections</b>  This clause of Part 1 is applicable.	P
<b>28 Creepage distances, clearances and distances through insulation</b>  This clause of Part 1 is applicable except as follows:	P

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<p><b>28.1 Addition:</b></p> <p>The values specified in Table 10 do not apply to reed-switches.</p>	P
<p><b>29 Resistance to heat, fire and tracking</b></p> <p>This clause of Part 1 is applicable.</p>	P
<p><b>30 Resistance to rusting</b></p> <p>This clause of Part 1 is applicable.</p>	N/A
<p><b>31 Radiation, toxicity and similar hazards</b></p> <p>This clause of Part 1 is applicable.</p> <p><i>Add the following annex:</i></p>	N/A
<p style="text-align: center;"><b>Annex K</b> (normative)</p> <p style="text-align: center;"><b>Battery tools and battery packs</b></p>	N/A
<p><b>K.1 Addition:</b></p> <p>All clauses of this standard apply unless otherwise specified in this annex.</p>	N/A
<p><b>K.12.4</b> This subclause is not applicable.</p>	N/A
<p><b>K.17.2</b> This subclause is not applicable.</p>	N/A
<p><b>K.23.1.11 Addition:</b></p> <p>For spray guns, reed-switches are allowed as power switches.</p>	N/A
<p><b>K.28.1 Addition:</b></p> <p>The values specified in Table K.2 do not apply to reed-switches.</p>	N/A

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<p>The annexes of Part 1 are applicable except as follows.</p> <p><i>Add the following annex:</i></p> <p style="text-align: center;"><b>Annex ZZ (informative)</b></p> <p style="text-align: center;"><b>Coverage of Essential Requirements of Directive 2006/42/EC</b></p> <p>This European Standard has been prepared under a mandate given to CENELEC by the European Commission and the European Free Trade Association and within its scope the standard covers all relevant Essential Requirements as given in EU Directive 2006/42/EC (Machinery Directive).</p> <p>Compliance with this standard provides one means of conformity with the specified essential requirements of the Directive concerned.</p> <p><b>WARNING</b> - Other requirements and other EU Directives may be applicable to the products falling within the scope of this standard.</p>	P
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