

OSM/IN DECISION

Standard: General	Sub clause: -	Sheet N°: OSM/IN 263
Subject: Test of indelibility of marking (aliphatic solvent)	Key words: <ul style="list-style-type: none"> - petroleum spirit - aliphatic solvent hexane - kauributanol 	Meeting N°: 22(2012) Item: 3.4.2
Question:	<p>In some standards, the kauributanol value of 29 is required and in some others it is recommended or an approximately value is given (see examples below).</p> <p><input type="checkbox"/> From IEC/EN 60898-1; IEC/EN 61008-1; IEC/EN 61009-1:</p> <p>9.3 Test of indelibility of marking <i>The test is made by rubbing the marking by hand for 15 s with a piece of cotton soaked with water and again for 15 s with a piece of cotton soaked with aliphatic solvent hexane with a content of aromatics of maximum 0,1 % by volume, a kauributanol value of 29, an initial boiling-point approximately 65 °C, a dry-point of approximately 69 °C and a density of approximately 0,68 g/cm³.</i></p> <p><input type="checkbox"/> From IEC/EN 60934</p> <p>9.3 Test of indelibility of marking <i>The test is made by rubbing the markings by hand for 15 s with a piece of cotton soaked with water and again for 15 s with a piece of cotton soaked with petroleum spirit.</i></p> <p>NOTE 1 <i>The petroleum spirit used is defined as a solvent hexane with a content of aromatics of maximum 0,1 %, volume percentage, a kauri-butanol value of 29, an initial boiling-point of approximately 65 °C, a dry-point of approximately 69 °C and a density of approximately 0,65 g/cm³.</i></p> <p><input type="checkbox"/> From IEC/EN 60669-1</p> <p>8.9 Marking shall be durable and easily legible. <i>Compliance is checked by inspection and by the following test. The marking is rubbed by hand for 15 s with a piece of cloth soaked with water and again for 15 s with a piece of cloth soaked with petroleum spirit.</i></p> <p><i>NOTE 1 Marking made by impression, moulding, pressing or engraving is not subjected to this test.</i></p> <p>NOTE 2 <i>It is recommended that the petroleum spirit used consist of a solvent hexane with an aromatic content of maximum 0,1 in volume percentage, a kauributanol value of approximately 29, an initial boiling point of approximately 65 °C, a dry point of approximately 69 °C and a density of approximately 0,68 g/cm³.</i></p> <p style="text-align: right;"><i>To be continued</i></p>	

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Decision:	<p>On the other hand, it is very difficult to find one aliphatic solvent which is in compliance with this requirement, as this value is not always mention in the data sheet or it is very difficult to obtain from the supplier.</p> <p>Which aliphatic solvent has to be used in order to guaranty the correct kauributanol value, for the test of indelibility of marking?</p> <p>Aliphatic solvent hexane having both the main composition required by the standards and CAS No. 110-54-3 is acceptable.</p>	
Explanatory notes:	<p>Kauributanol value of the aliphatic solvent hexane used by various Testing Laboratories is systematically not available, unknow or not mentioned in the data sheets of the supplier.</p> <p>A further discussion on the characteristics of the aliphatic solvent hexane used by various Testing Laboratories, product reference included, revealed the existence of a specific Chemical Abstracts Service Registry Number (CASRN 110-54-3) specifically referred to a chemical product (n-Hexane) which should fulfil the composition generally required by the standards.</p> <p>OSM/IN decided also to report this practical situation to IEC/TC 23, CLC/TC 23E and CLC/TC 213.</p>	