



ENGINEERING MATERIAL SPECIFICATION

Material Name

Specification Number

SOLVENT, ISOPROPYL ALCOHOL

WSK-M14J251-A

1. SCOPE

The material defined by this specification is an organic solvent.

2. APPLICATION

This specification was released originally for material used as solvent and a cleaning agent for substrates (plastics, etc.) where the solubility does not allow other usual solvents.

3. REQUIREMENTS

3.1 QUALITY SYSTEM REQUIREMENTS

Material suppliers and part producers must conform to Quality System Requirements, QS-9000. Material specification requirements are to be used for initial qualification of materials. A Control Plan for ongoing production verification is required. This plan must be reviewed and approved by the relevant Ford Materials activity and/or Ford Supplier Technical Assistance (STA) prior to production parts submission. Appropriate statistical tools must be used to analyze process/product data and assure consistent processing of the materials.

Part producers using this material in their products, must use Ford approved materials and must conform to a process control plan which has been approved by STA and/or the relevant Materials Activity.

3.2 INFRARED SPECTROPHOTOMETRY AND/OR THERMAL ANALYSIS

Ford Motor Company, at its option, may conduct infrared and/or thermal analysis of material/parts supplied to this specification. The IR spectra and thermograms established for initial approval shall constitute the reference standard and shall be kept on file at the designated material laboratory. All samples shall produce IR spectra and thermograms that correspond to the reference standard when tested under the same conditions.

3.3 CONDITIONING AND TEST CONDITIONS

All test values indicated herein are based on material conditioned in a controlled atmosphere of 23 +/- 2 C and 50 +/- 5 % relative humidity for not less than 24 h prior to testing and tested under the same conditions unless otherwise specified.

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3.4 FLASH POINT

The flash point is lower than normal and usage shall conform to the safety regulations applicable to the plant and/or country where the material shall be used.

3.5 COMPOSITION

Aliphatic secondary alcohol. Molecular weight. 60.10

Maximum level of water impurity. 0.5 %

3.6 PHYSICAL PROPERTIES

3.6.1 Stability

During a storage of 2 years at temperature between 5 - 28 C (or as recommended by the supplier) the material in the closed original container shall remain stable with no change in colour.

3.6.2 Assay (GLC), min 99.5 %

3.6.3 Density, as delivered 0.785 +/- 0.002 g/mL
(ASTM D 1475) at 20 C

3.6.4 Distillation Range 80 - 83 C
(ASTM D 1078)

3.6.5 Flash Point 12 +/- 2 C
(ASTM D 56)

3.6.6 Acidity, max 0.002 % free acid calculated as
Acetic Acid

3.7 APPEARANCE

3.6.1 Colour Water-white

3.8 SAFETY

Before application all local protection operations to be alerted.

3.9 SUPPLIER'S RESPONSIBILITY

All materials supplied to this specification must be equivalent in all characteristics to the material upon which approval was originally granted.