



ENGINEERING MATERIAL SPECIFICATION

Material Name	File Control No.	Specification Number
THINNER	SMT5014JB6120	ESK-M14J512-A1
THINNER	SMT5014JB6190	ESK-M14J512-A2

1. SCOPE

The materials defined by this specification are slow solvents with a low evaporation rate.

2. APPLICATION

This specification was originally released for materials used as control additives for levelling and flash off properties of solvent borne primer/surfaces.

3. REQUIREMENTS

3.1 STATISTICAL PROCESS

Suppliers must conform to the requirements of Ford Quality System Standard Q-101. A mutually acceptable Control Plan as described therein is required for material/source approval. Appropriate statistical tools must be used to analyze process/product data so that variation in the final product is continuously reduced.

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 PROPERTIES

3.3.1 Chemical Composition

ESK-M14J512-A1:	Butyl-di-glycol-acetate.
ESK-M14J512-A2:	Butyro-lactone.

3.3.2 Density
(ASTM D 1298)

ESK-M14J512-A1:	0,975 - 0,985 kg/L
ESK-M14J512-A2:	1,120 - 1,130 kg/L

Date	Release No.	Release/Revision
09-12-1988	SM/EQ 5940 TP	Release

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3.3.3	Flash point (ASTM D 56)	> 21 C
3.3.4	Index of Refraction at 20 C. (ASTM D 1218)	
	ESK-M14J512-A1:	1,425 - 1,427
	ESK-M14J512-A2:	1,435 - 1,437
3.3.5	Colour	clear, colourless

3.4 SUPPLIER'S RESPONSIBILITY

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

Prior to making any changes in the properties, composition, construction, color, processing or labelling of the material originally approved under this specification, whether or not such changes affect the materials' ability to meet the specification requirements, the Supplier shall notify Purchasing, Toxicology and the affected Materials Engineering activity of the proposed changes and obtain the written approval of the Materials Engineering activity. Test data, test samples and a new code identification are to be submitted with the request.

Substance restrictions imposed by law, regulations or Ford apply to the materials addressed by this document. The restrictions are defined in Engineering Material Specification WSS-M99P9999-A1, unless a different suffix (e.g., A2 or A3) is specified on the engineering document for the application.

4. APPROVAL OF MATERIALS

Materials defined by this specification must have prior approval by the responsible Materials Engineering activity. Suppliers desiring approval of their materials shall first obtain an expression of interest from the affected Purchasing, Design and Materials Engineering activity. Upon request, the supplier shall submit to the affected Materials Engineering activity its own laboratory report to the specification (test results, not nominal values), the material designation and code number, and test specimens for Ford evaluation. Upon approval, the material will be added to the Engineering Material Approved Source List.