



ENGINEERING MATERIAL SPECIFICATION

Material Name	File Control No.	Specification Number
SEALER, CHLOROSULFONATED POLYETHYLENE SOLVENT RELEASE - FLEXIBLE	SMT5004GB3690	ESK-M4G242-A

1. SCOPE

The material defined by this specification is a solvent release liquid gasket based on chlorosulfonated polyethylene.

2. APPLICATION

This material was originally released for sealing lever to transmission gear shaft of 5 speed rear wheel drive.

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 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.

Date	Release No.	Release/Revision
1988 12 01	B/031518 TP	Completely revised
1983 06 21	SM/EQ5371 TP	Released

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- 3.4 COLOUR grey
- 3.5 FLASH POINT
(ASTM D 56) > 21 C
- 3.6 DENSITY AT 25 C
(ASTM D 1475) 1,24 + 0,05 g/cm³
- 3.7 SOLIDS, min
(FLTM BV 150-10) 50 %
- 3.8 ASH, max
(FLTM BV 150-10) 50 %
- 3.9 VISCOSITY mPas, tolerance
(ASTM D 1084, Brookfield RVT/D, spindle No. SC4/21 measuring time +/- 20 %
1 minute for each record)
- | | | Rotational Frequency | | |
|-------|---------|----------------------|---------|---------|
| | | 0,5/min | 1,0/min | 2,5/min |
| 3.9.1 | At 20 C | 8300 | 8000 | 7800 |
| 3.9.2 | At 25 C | 8100 | 7800 | 7600 |
- 3.10 RESISTANCE TO OIL no leak
(FLTM BV 106-1, except Transmission Oil to ESD-M2C186-A, insert M6 plug with 6 complete turns by hand directly after sealer application, test at 23 +/- 2 C for 1 h)
- 3.11 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.