



ENGINEERING MATERIAL SPECIFICATION

Material Name

File Control No.

Specification Number

GASKET, STEEL SHEET
SILICONE RUBBER COATED

SMT5008GA8480

ESK-M8G219-A

1. SCOPE

The material defined by this specification is a steel sheet coated on both sides with silicone rubber by screen-printing.

2. APPLICATION

This specification was released originally for material used for gasket retainer bearing to extension housing of transmission.

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
1988-07-14	SM/EQ5376 TP	Release M. Siewert

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3.4 Test Specimens (sections of finished gasket)

3.4.1 Materials

3.4.1.1 Material of Steel Sheet
Strip St4 LG DIN 1624/0.2 thick, zinc plated

3.4.1.2 Material of coating: silicone rubber thickness and
design of coating see Engineering Drawing.

3.4.2 Compressibility 10 - 25 %
(ASTM F 36, Procedure A,
4 specimens plied-up)

3.4.3 Recovery, min 40 %
(ASTM F 36, procedure A,
4 specimens plied-up)

3.4.4 Heat Aging
(ASTM D 573, 22 h at 150 +/- 2 C)

3.4.4.1 Compressibility 10 - 25 %

3.4.4.2 Recovery, min 40 %

3.4.5 Immersion in ASTM Oil No. 1
(ASTM F 146, 22 h at 150 +/- 2 C)

3.4.5.1 Compressibility 10 - 30 %

3.4.5.2 Recovery, min 45 %

3.4.5.3 Thickness, Change -1 % to +6 %

3.4.5.4 Coating shall show no sign of continuous
separation from base material.

3.4.6 Immersion in ASTM Oil No. 3
(ASTM F 146, 22 h at 150 +/- 2 C)

3.4.6.1 Compressibility 10 - 35 %

3.4.6.2 Recovery, min 30 %

3.4.6.3 Thickness, Change 0 to +12 %

3.4.6.4 Coating shall show no sign of continuous
separation from base material.