



ENGINEERING MATERIAL SPECIFICATION

Material Name

Specification Number

GASKET, STEEL CORE, MICA SHEET

WSK-M8G248-A

1. SCOPE

The materials defined by this specification consist of a steel core covered equally on both sides with phlogopite mica.

2. APPLICATION

This specification was released originally for catalyst gaskets.

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

Prior to testing, the materials shall be conditioned in an oven at 100 +/- 2 C for 1 h and allowed to cool to 23 +/- 2 C in a desiccator containing anhydrous calcium chloride. All tests shall be conducted in accordance with ASTM F 104, Type 1 material unless otherwise specified. Test specimens are to be selected from finished gaskets when practicable.

Date	Release No.	Release/Revision
1993-10-01	EP00E10258828000	Released K. Gerhards

WP 3948-a

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3.4 CONSTRUCTION

Consists of a stainless steel sheet with a material phlogopite type mica bonded to each side of the steel sheet.

3.4.1 Steel Core

Stainless steel sheet according to DIN x15CrNiSi 2012.

3.4.2 Facing Material

The mica sheet shall be plied uniformly and bonded to each side of the steel core to meet requirements of the application at the thickness specified on the Engineering Drawing.

3.5 ORIGINAL PROPERTIES

3.5.1	Ignition Loss of Facing Material, max (ASTM F 495)	7.0 %
3.5.2	Compressibility (ASTM F 36, Procedure A)	7 - 17 %
3.5.3	Recovery, min (ASTM F 36, Procedure A)	28 %

3.6 ADHESION AND CORROSION (FLTM BV 123-01)

3.6.1	After Heat Aging at 150 +/- 2 C	
	Adhesion, max	Rating 2
	Corrosion, max	Rating 2
3.6.2	After Aging in Humidity Cabinet	
	Adhesion, max	Rating 2
	Corrosion, max	Rating 2