Material Name | Specification Number

GASKET, NON-ASBESTOS FIBERS, NBR BINDER | WSK-M8G250-A

1. SCOPE

The material defined by this specification is a gasket material comprised of a combination of synthetic organic and inorganic fibers and nitrile butadiene rubber binder.

2. APPLICATION

This specification was released originally for gasket material used for the transmission 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

All tests shall be conducted in accordance with ASTM F 104 Type 7 material unless otherwise specified. The requirements of this specification are valid for gasket material of 0.4 to 3.0 mm thickness. Test specimens are to be selected from finished gaskets when practicable.

Date	Release No.	Released
1994-05-03	EP00E10348591000	Released K. Gerhards

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Prior to testing the materials shall be conditioned for 4 h at 23 +/- 2 C in a closed chamber containing anhydrous calcium chloride as a desiccant. The air in the chamber shall be circulated by gentle mechanical agitation. Specimens shall then be transfered immediately to a controlled humidity room and conditioned for at least 20 h at 23 +/- 2 C and 50 +/- 5 % relative humidity.

3.4	CONSTRUCTION	
3.4.1	Thickness	> 1.5 %
3.5	ORIGINAL PROPERTIES	
3.5.1	Density (ASTM D 297)	1.6 - 1.8 g/cm3
3.5.2	Tensile Strength, min (ASTM F 152, Method C)	7.0 MPa
3.5.3	Compressibility (ASTM F 36, Procedure J)	14 - 20 %
3.5.4	Recovery, min (ASTM F 36, Procedure J)	60 %
3.6	SEALABILITY, max (ASTM F 37, Method A, ASTM Fuel A, 6.9 MPa flange load, 0.7 MPa internal pressure)	2.5 mL/h
3.7	CREEP RELAXATION, max (ASTM F 38, Method B, 22 h at 125 +/- 2 C)	45 %
3.8	ADHESION AND CORROSION (FLTM BV 123-01)	
3.8.1	After Heat Aging at 125 +/- 2 C	
	Adhesion, max	Rating 2
	Corrosion, max	Rating 2
3.8.2	After Aging in Humidity Cabinet	
	Adhesion, max	Rating 2
	Corrosion, max	Rating 2
3.9	DIMENSIONAL STABILITY (ASTM F 1087)	
3.9.1	Dry Condition, Change, max	+/- 2 %
3.9.2	Wet Condition, Change, max	+/- 2 %

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