



ENGINEERING MATERIAL SPECIFICATION

Material Name

Specification Number

GASKET MATERIAL, BUNA-N AND PAPER

SQ-M8G9001-AA

1. SCOPE

The material defined by this specification is a bestel or other suitable method mixed Buna-N rubber and paper gasket material of good quality and uniform composition.

2. APPLICATION

This material is generally used as gaskets for automatic transmissions or as shown on engineering drawing.

3. REQUIREMENTS

Test Method: Unless otherwise specified, tests shall be conducted in accordance with ASTM F 104, Type 3.

3.1 THICKNESS

As specified on Engineering drawing.

3.2 COMPRESSIBILITY, min
(ASTM F 36, Method G)

6 %

3.2.1 Recovery, min

50 %

3.3 TENSILE STRENGTH, min

27.5 MN/m²3.4 THICKNESS CHANGE AFTER IMMERSION IN LIQUIDS
(ASTM D 471)3.4.1 Immersion in ASTM Oil No. 1,
5 h at 150 +/- 2 C

- 5 to + 5 %

3.4.2 Immersion in ASTM Oil No. 3,
70 h at 150 +/- 2 C

0 to +10 %

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- 3.4.3 Immersion in each approved Automatic Transmission Fluid to Specification SQ-M2C9010-A, 5 h at 150 +/- 2 C - 5 to + 5 %

Note: The material shall show no signs of decomposition when subjected to these test media.

- 3.5 COMPRESSION SET, max 25 %
(ASTM D 395, Method A, 70 h at 100 +/- 2 C; for measuring the original thickness use test device acc. to ASTM F 36, penetrator dia 12.8 mm, total load on pressure foot 66 +/- 5 N, reading shall be taken 30 seconds after loading)

3.6 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 change in the properties, composition, construction, color, processing or labeling of the material originally approved under this specification, whether or not such changes affect the material's 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 Materials Specification WSS-M99P9999-A1.

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 a completed copy of their laboratory test reports, signed by a qualified and authorized representative of the test facility, demonstrating full compliance with all the requirements of this specification (test results, not nominal values), the material designation and code number, and test specimens for Ford evaluation. Ford's engineering approval of a material will be based on its performance to this specification and on an assessment of suitability for intended processes and/or applications. Upon approval, the material will be added to the Engineering Material Approved Source List.