



Engineering Material Specification

Material Name

Specification Number

GASKET, ASBESTOS/NITRILE BUTADIENE RUBBER

a E n

ESF-M8G65-A

1. SCOPE

The material defined by this specification is a nitrile butadiene rubber, asbestos material with an antistick coating on both sides.

2. APPLICATION

This specification was released originally for material used as a gasket on the carburetor choke housing cover.

3. REQUIREMENTS

- 3.1 COMPRESSIBILITY, min 12%
(ASTM F 36, 1000 psi (6.9 MPa) load)
- Recovery, min 40%
- 3.2 TENSILE STRENGTH, min 2000 psi (13.8 MPa)
(ASTM F 104, Type 1)
- 3.3 IMMERSION IN LIQUIDS
(ASTM D 471, 22 h at $23 \pm 2^\circ\text{C}$)
- Immersion Fluid Weight Change, max
- ASTM Oil No. 3 40%
- ASTM Reference Fuel "B" 35%
- Water 40%
- 3.4 SURFACE COATING Must not stick
- Test Method: A 5/8 in (15.9 mm) I.D. x 1-1/2 in (38.1 mm) O.D. test specimen is clamped between 2 discs of 17/32 in (13.5 mm) I.D. x 2 in (51 mm) O.D. aluminum plates (maximum thickness 0.062 in (1.57 mm) backed by 1/2 in (12.7 mm) steel plates. A 1/2 in (12.7 mm) steel bolt is inserted through the hole and a nut put on it. Tighten the bolt to 700 in.lb (79 N.m). Heat the assembly to $149 \pm 3^\circ\text{C}$ for 5 h. Remove and allow to cool to room temperature. The specimen shall come off the aluminum without tearing.
- 3.5 SUPPLIER'S RESPONSIBILITY
- Material supplied to this specification must be equivalent to that originally approved. Changes in formulation or processing shall not be made without prior approval as described in Supplier Procedure I-A.

4. APPROVAL OF SUPPLIERS (OVER)

Suppliers to this specification must be approved by the effected product engineering office. Procedure for gaining approval of a specific material to a new/existing ES-M specification is contained in Supplier Procedure I-A. Approved new suppliers will be added to the Engineering Materials Approved Source List.

Date	Para. No.	Revisions
1974 10 17	--	Metricated, Renumbered & Retyped CESM-K0752470E-SUPP # 1
1964 02 02		Released F6-126R

Page 1 of 1

Eng Res 3848-B
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