



# Engineering Material Specification

Material Name

Specification Number

**GASKET, ASBESTOS/NITRILE RUBBER**

*by Fantasy*

**ESP-M8G55-A**

## 1. SCOPE

The material defined by this specification is a sheet of asbestos fiber and nitrile rubber, highly compressed to produce maximum density and relatively impervious structure.

## 2. APPLICATION

This specification was released originally for material used where resistance to high temperature and fuel is required, and where good recovery characteristics from swelling due to temperature and fuel is desired, i.e., gasket for the carburetor power valve.

## 3. REQUIREMENTS

All tests and conditioning shall be conducted in accordance with ASTM F 104, Type 1, class 1, unless otherwise specified.

3.1 COMPRESSIBILITY  
(ASTM F 36, 5000 psi (34.5 MPa) load)

15 - 30%

Recovery, min

40%

3.2 TENSILE STRENGTH, min

2000 psi (13.8 MPa)

3.3 IMMERSION IN LIQUIDS

| Immersion Fluid                        | Test Conditions | Thickness Change, max | Weight Change, max | Tensile Strength Loss, max | Compressibility |
|----------------------------------------|-----------------|-----------------------|--------------------|----------------------------|-----------------|
| ASTM Oil No. 1                         | 5 h, 149°C      | 13%                   | -                  | 20%                        | 0-35%           |
| ASTM Oil No. 3                         | 70 h, 100°C     | 20%                   | -                  | 30%                        | 0-40%           |
| ASTM Fuel "B"                          | 70 h, 21-30°C   | 18%                   | -                  | -                          | -               |
| Motorcraft Anti-Freeze & Water (50/50) | 70 h at boiling | 25%                   | 55%                | -                          | -               |
| Water                                  | 70 h, 100°C     | 20%                   | -                  | -                          | -               |

3.4 FLEXIBILITY FACTOR "F"

Must pass test

As received

12

Oven Aged  
(70 h at 100°C)

16

Oil Aged  
(ASTM Oil No. 1, 5 h at 149°C)

16

| Date       | Para. No. | Revisions                                                          |
|------------|-----------|--------------------------------------------------------------------|
| 1978 07 13 |           | Metricated, Renumbered & Retyped CF4A-RD 567/68 <i>[Signature]</i> |
| 1963 06 25 |           | Released F6-1073                                                   |

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