



Engineering Material Specification

Material Name

Specification Number

GASKET, STEEL CORE-ASBESTOS/RUBBER BINDER

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ESN-M8G67-A

NO PART X REF.

1. SCOPE

The material defined by this specification consists of a low carbon steel core covered on two sides with asbestos and synthetic rubber binder.

2. APPLICATION

This specification was released originally for material used on engines as a head gasket, where high compressive strength is required.

3. REQUIREMENTS

3.1 GASKET CONSTRUCTION

Consists of a perforated low carbon steel core with asbestos and synthetic rubber binder mechanically bonded to each side of the core. Grommets of rustless steel, copper or carbon are used as required.

3.1.1 Steel Core

Low carbon

3.1.2 Fabrication

The asbestos and synthetic rubber binder shall be plied uniformly on each side of the steel sheet core to meet the requirements of the application. The thickness of the components shall be as specified on engineering drawing.

3.2 TESTING

3.2.1 Load Deflection, Thickness Change

15-30%

Test Method: Compress 1 in² (645 mm²) sample for 5 min under a load of 5000 ps. (34.5 MPa) then measure thickness change from original dimension.

3.2.2 Immersion in Liquids
(ASTM D 471)

Immersion Fluid

Test Conditions

Thickness Change, max

Ethylene Glycol and
water 50/50

at boiling

+15%*

Alcohol and water 50/50

at boiling

+15%*

ASTM Reference
Fluid "A"

23 ± 2°C

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Date	Part No.	Revisions
1978 11 21		Metricated, Renumbered & Rekeyed EMT-I-770250-C
1963 10 26		Released

Eng Res
June 77 394B-a

R001 1345

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