



Engineering Material Specification

Material Name

Specification Number

GASKET, STEEL CORE - ASBESTOS/WIRE - HIGH TEMPERATURE

E ESE-M8G138-B1
E ESE-M8G138-B2
NO PART X REF

1. SCOPE

The material defined by this specification is a stainless steel core surrounded by a jacket of braided asbestos and super alloy/stainless steel wire.

2. APPLICATION

This specification was released originally for materials used as a seal in the catalytic converter.

3. REQUIREMENTS

All test methods performed per ASTM D 299 unless otherwise specified.

3.1 CONSTRUCTION

3.1.1	Stainless Steel Core	SAE 30316
3.1.2	Jacket:	64 yarns braided on 32 carrier braider, 2 ends per carrier.

3.2 YARN

3.2.1	Description	130/2/1 - 0.002 in (0.05 mm) wire
3.2.2	Weight	5300 ± 370 yd/lb (10700 ± 750 kg/m)
3.2.3	Twist	4.1 - 4.7 Z turns/in (161 - 185 Z turns/m)

3.2.4	Wire (ASTM E 8)	ESE-M8G138-B1 ESE-M2A101-A	ESE-M8G138-B2 SAE 30316
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EXCEPT;			
Tensile Strength, psi (MPa)	115,000-160,000 (793 - 1103)	100,000-130,000 (689 - 931)	
Yield Strength, psi (MPa)	85,000-120,000 (586 - 827)	60,000-80,000 (276 - 552)	
Elongation, 10 in (254 mm), %, min	10	20	

3.2.5	Asbestos, min (ASTM D 1918)	99%
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Date	Para. No.	Revisions
1979 03 13		Metricated and Retyped # CE3H-RS7B2440-E SUPP 22
1977 03 11		Released CBG3-CC774314-E

Eng Res 3948-s
June 77

June 11

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