



Engineering Material Specification

Material Name

Specification Number

SEALER, ENGINE AND CHASSIS - HEAVY
SEALER, ENGINE AND CHASSIS - MEDIUM
SEALER, ENGINE AND CHASSIS - LIGHT

6 E / 4 m
6 E /
6 E /

ESE-M4G114-A
ESE-M4G115-A
ESE-M4G116-A

1. SCOPE

The materials defined by these specifications are asbestos filled vegetable oil type sealers which will dry without becoming hard and brittle and are resistant to oil, water, and engine coolant solutions.

2. APPLICATION

These specifications were released originally for materials used for sealing studs, plugs, gaskets, and joints in the engine and chassis assemblies to prevent leakage of lubricant or coolant. They are applied by flowing, dipping, brushing, or roll-coating.

3. REQUIREMENTS

3.1 VISCOSITY, s (FLTM BU 4-1. 4 hole disc)

As Received

Aged, max

ESE-M4G114-A, 250 g load
ESE-M4G115-A, 100 g load
ESE-M4G116-A, 100 g load

45 - 55
20 - 25
10 - 15

100
60
35

3.2 SOLIDS, % min

(2 ± 0.5 g sample, heat at 102 ± 3°C in a mechanical convection oven for 3 h)

ESE-M4G114-A
ESE-M4G115-A
ESE-M4G116-A

80
70
65

3.3 FLASH POINT, min (ASTM D 1310)

46°C

3.4 WEIGHT PER VOLUME (ASTM D 816)

8 - 9 lb/gal
(0.96 - 1.08 kg/L)

The weight tolerance for any one supplier shall be + 0.2 lb/gal (0.02 kg/L) based on the recorded weight of his original approved production sample.

3.5 QUALITY

Shall be a smooth homogeneous mixture free from foreign materials and properties detrimental to normal production use.

Date	Para. No.	Revisions
277.15		Metricated and Retyped CE3H-782440-E
1963 08 09		Released E7-2756