

TECHNICAL INFORMATION

WS-516

Sealing Compound

MEETS THE REQUIREMENTS OF SPECIFICATION (MIL-S-8516F & PRF-8516G)

PRODUCT DESCRIPTION

WS-516 is especially formulated for the sealing, insulation and reinforcement of electrical connectors, wiring and other electrical apparatus. WS-516 protects against corrosion, moisture, and contamination and also reduces the arc over between pins of an electrical connector.

WS-516 is a two- part material consisting of a Base Compound and an Accelerator. After mixing, WS-516 cures at room temperature to a firm resilient rubber. WS-516 exhibits excellent adhesion to metals and plastics and also has outstanding resistance to weather, water, and corrosion.

WS-516 is available in the following Types and Classes:

TYPES

- Type I: Low Viscosity (100 to 400 poises) initial mixed viscosity
- Type II: High Viscosity (401 to 1200 poises) initial mixed viscosity

CLASSES

- Class 1: 24 Hours cure @ 77°F Class 2: 48 Hours cure @ 77°F
- Class 3: 72 Hours cure @ 77°F

TYPICAL PROPERTIES

BASE COMPOUND

Color White

Type I- 300 poises, Type II-Consistency

900 poises

Non-Volatile Content Type I-95%, Type II-97%

ACCELERATOR

Brown Paste Appearance

MIXING INSTRUCTIONS

100 Parts by weight of WS-516 Base Compound is mixed with 10 Parts by weight of WS-516 Accelerator until uniform.

APPLICATION LIFE

30 Minutes Minimum Class1 Class 2 60 Minutes Minimum Class 3 120 Minutes Minimum

CURED PROPERTIES

(Test conducted according to MIL-S-8516F & PRF-8516G)

Color Brown

Shrinkage Type I-8%, Type II-5%

40 Shore A Hardness

25 lbs./inch (Aluminum, Adhesion

Alloy, Chromated, Cadmium Plate, Diallyl Phtalate Plastic, Nylon

Plastic, T.F.E.)

Adhesion after Fluid 25 lbs./inch

immersion

Low Temperature Flexibility No checking, cracking or

separation at -65°F

Hydrolytic stability Meets requirements of the

specification.

ELECTRICAL PROPERTIES

(CURED RUBBER MIL-S-8516F & PRF-8516G)

Arc Resistance 75 Seconds Dielectric Strength 300 Volts/mil. Dielectric Constant 1 kc @ 77°F - 7 1 mc @ 77°F - 7 1 kc @ 185°F - 6.7 1 mc @ 185°F - 6.7

RESISTIVITY

1 x 10¹² ohm/cm Volume @ 77°F 1 x 10¹³ ohm/cm Surface @ 77°F 2 x 10¹¹ ohm/cm Volume @ 185°F 2 x 10¹¹ ohm/cm Surface @ 185°F Meets specification Dissipation Factor requirements

INSULATION RESISTANCE

20,000 meg ohms minimum Initial 20,000 meg ohms minimum After thermal Shock After Hydrolic Stability 20,000 meg ohms minimum

High Potential Resistance No Breakdown

Air Leakage Less than 0.5 cubic inches

per hour Overload Does not ignite

PACKAGING

WS-516 is packaged in Gallon, Quart, Pint and 1/2 Pint Kits containing pre weighed amounts of Base Compound and Accelerator.

STORAGE

Flammable liquid.

ADDITIONAL INFORMATION

Visit our web site at:

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NOTE

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