

# MATERIAL PROPERTIES

## WEARPAK 756

### Wearpak 756-Part No. 99.0029 High-Temperature Red Silicone

A one-part, high-modulus, industrial RTV Silicone Sealant/Adhesive and Gasketing. Will remain flexible from  $-60^{\circ}\text{C}$  ( $-75^{\circ}\text{F}$ ) to  $+260^{\circ}\text{C}$  ( $+500^{\circ}\text{F}$ ) continuous operation to  $315^{\circ}\text{C}$  ( $600^{\circ}\text{F}$ ) for short periods. Wearpak 756 Hi-Temperature Silicone will remain permanently flexible and provides excellent resistance to aging, vibration and shock.



#### Uses:

##### • Automotive:

- Valve Covers
- Water and oil pump seals
- Bearing cap seals
- Fuel pumps to blocks

##### • Industrial:

- Ceramic Tile
- Pump and compressor gaskets
- Appliance door gaskets
- Ductwork gaskets
- Wire and cable installation

#### Packaging:

10.2 fl. oz. Caulking Cartridges

#### Storage:

When stored in original unopened container at or below  $32^{\circ}\text{C}$  ( $90^{\circ}\text{F}$ ) has a shelf life of 12 months from date of shipment.

#### Directions:

Wearpak 756 High-Temperature Silicone is ready-to-use and requires no mixing or additives. The cure mechanism begins as soon as the sealant comes in contact with the air. At conditions of  $25^{\circ}\text{C}$  ( $77^{\circ}\text{F}$ ) and 50% relative humidity, the sealant will “skin” in 10 minutes within 24 hours (1/4" bead), ultimate cure 7 days.

Higher humidity accelerates cure. Tooling, if necessary, should be done before “skinning” takes place. In applications where partial or total confinement of sealant is prevalent, the time required for proper cure is generally lengthened by the degree of confinement.

#### Surface Preparation:

All surfaces should be clean and dry. It is recommended that bonding surfaces be solvent wiped with naphthas, ketones or chlorinated solvents. Specific solvents would include xylo, toluol, and mineral spirits. In case of plastics, determine suitability of solvent prior to use. Allow surface to dry thoroughly before applying sealant. Do not solvent wipe with alcohols or oil-containing solvents such as Varsol.

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**Safety Precautions:**

Wearpak 756 Hi-Temperature Silicone releases small amounts of acetic acid during cure. After cure, acetic acid odor disappears. Adequate ventilation should be provided with extensive use of this sealant. On direct contact, uncured sealant will irritate eyes. Flush eyes well with water and call a physician. Avoid prolonged contact with skin.

**Typical Properties****UNCURED:**

Type	One part, high-modulus, industrial RTV Silicone
Appearance	Smooth, non-slump red paste
Specific Gravity	1.18
Extrusion Rate	250g/min (1/8" bead 90 psi)
Application Temperature Range	-188 to +50°C (0 to 120°F)
Cure Method	Acetoxy, moisture cure
Cure Time	10 minutes
Slump/Sag	Nil

**CURED:**

[at 25 °C (77 °F) and 50% R.H. for 7 days (1/4" bead)]

Durometer Hardness (Shore A) (ASTM D 2240)	.33
Tensile Strength (ASTM D 412)	350 psi
Elongation at Break (ASTM D 412)	400%
Tear Resistance (ASTM D 624, Die B)	50 ppi (2,7 kN/m)
Temperature Range After Cure Short Periods	-60° to 315° C (-75 to 600 °F)
Temperature Range After Cure Continuous Operation	-60° to 315° C (-75 to 500 °F)
Shrink Factor	Nil

Information on this techsheet is subject to change without notice and it is therefore recommended that this information not be used for spec writing. For additional information on specific applications, contact manufacturer.

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