

## Super Calstik™ High Temperature Glue

### Description

Super Calstik is a modified, silicate-based glue. It sets quickly to provide a high temperature bond for porous insulating materials. Super Calstik is completely asbestos free.

### Applications

Super Calstik is used for bonding and sealing joints in Super Firetemp® high-temperature insulation and calcium silicate pipe and block insulation. It is used in grease ducts, structural steel and other fire-rated applications.

### Wet Properties

Density .....	12 lbs./gal. (1,440 kg/m <sup>3</sup> )
Solids by Weight .....	62%
pH .....	12.8
Viscosity-Brookfield .....	7200 to 8500 cps.
Wet Coverage .....	1/16" thick, 25 sq. ft./gallon (1.6 mm, 0.61 m <sup>2</sup> /liter)
	1/32" thick, 50 sq. ft./gallon (0.8 mm, 1.23 m <sup>2</sup> /liter)

### Drying Time on Calcium Silicate Insulation (ASTM C 474-67 at 77°F [25°C])

Set .....	15 Seconds
Handle .....	5 Minutes
Thorough Dry .....	1½ Hours
Minimum Application Temperature for Thorough Dry .....	35°F (2°C)

### Physical Properties

Melt Point .....	Decomposes @ 1088°F (587°C)
Shore "C" Hardness – 24-Hour Cure .....	65 Minimum
Resistance to Cracking (ASTM C 474-67)	
0" - 1/8" Wedge .....	No Cracking
0" - 1/4" Wedge .....	No Cracking
Elongation – 10-Day Cure .....	2%
Shrinkage – 10-Day Cure .....	1%
Tensile Strength .....	3000 psi (20,685 kPa)
Adhesion to Calcium	
Silicate Insulation .....	Insulation Fails Before Glue Line Joint

### Chemical Resistance

Non-Aqueous Solvents .....	Excellent with Aromatic, Aliphatic and Oxygenated Solvents
Mineral Acids .....	Salt Formation and Loss of Bond Strength
Water – Cold .....	Softens Upon Lengthy Submersion
Water – Hot .....	Softens Upon Continuous Contact

### Storage and Application Limitations

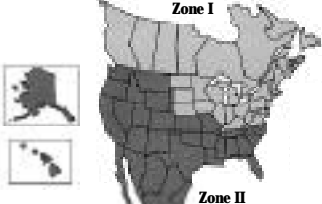
Do Not Store Below 35°F (2°C) (Wet Product) .....	Freezes
Do Not Store Above 95°F (35°C) (Wet Product) .....	Bodies Up
Freeze-Thaw Stability (Wet Product) .....	No Cycles
Maximum Recommended Continuous	
Service Temperature (Dry Product) .....	1000°F (538°C)
Fire Resistance (Dry Product) .....	Passes 1200°F (649°C) Oven Without Charring
Effect on Metal (Dry Product) .....	Non-Corrosive

### Removal from Surfaces

Immediately Use Hot Water and Soap **Before** It Dries

# Super Calstik™

## High Temperature Glue

<b>North American Sales Offices</b>		
	<b>Zone I</b> P.O. Box 158 Defiance, OH 43512 (419) 784-7000 (800) 334-2399 Fax: (419) 784-7866	<b>Zone II</b> P.O. Box 5108 Denver, CO 80217 (303) 978-2284 (800) 368-4431 Fax: (303) 978-4661
		<b>International</b> Denver, Colorado USA (303) 978-3763 Fax: (303) 978-2627

The physical and chemical properties of Super Calstik™ High Temperature Glue represent typical, average values obtained in accordance with accepted test methods and are subject to normal manufacturing variations. They are supplied as a technical service and are subject to change without notice. Any references to numerical flame spread or smoke developed ratings are not intended to reflect hazards presented by these or any other materials under actual fire conditions. Check with the Zone Sales Office nearest you to assure current information. **All Johns Manville products are sold subject to the Limited Warranty and Limitation of Remedy. For a copy of the Limited Warranty and Limitation of Remedy, call 1-800-654-3103.**

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