

Thermal Industrial Insulation Manufactured By:

Howred Corp.

PRODUCT

GOODTEMP is a high temperature thermal insulation made of expanded perlite and sodium silicate reinforced with fibers to increase impact resistance. This thermal insulation is inhibited, asbestos free high temperature insulation. Being inherently inhibited, GOODTEMP protects austenitic stainless steel piping and equipment from failure due to chloride stress corrosion cracking. GOODTEMP also inhibits corrosion of other ferrous metals. The unique characteristic of bonding millions of vitrified air cells gives abundant industrial applications to this inhibited high temperature insulation.

APPLICATIONS

GOODTEMP is recommended for insulating piping, vessels and equipment in continuous and cyclic operation. It is especially suited to new high temperature applications in process piping, refractory use and in chemical plants and refineries. Its moisture resistance is particularly advantageous for installations in high humidity and high rainfall areas. Sodium silicate as the primary binding agent gives corrosive inhibition without equal among manufacturers of high temperature insulation. The lack of asbestos makes GOODTEMP compatible with use in operations faced with limitations imposed by the Occupational Safety and Health Association.

MAJOR ADVANTAGES

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Moisture Resistant	low absorption, corrosion guard, construction savings
Fire-Resistant	does not act as wick, protects against actual fire
	damage
Superior Inhibition	provides corrosion inhibition for austenitic stainless
	steel and other ferrous metals
Low Shrinkage	less than 1% linear to 1200°F
Corrosion Protection	acid resistant; contains virtually no chloride, no lime
No Asbestos	no health hazards, meets OSHA requirements
High Strength and Flexibility	easier installation, improved appearance, longer life
Metric Lengths	all one meter lengths
Cost and Time Savings	full rating without double layers
Easily Identified	because it's pink, you can easily spot asbestos free
	GOODTEMP
Retains strength at High Temperatures	binder does not burn out, material will not flake, or
	discolor

PHYSICAL PROPERTIES

FITT SICAL FRO	-			
Temperature Limits			Maximum 1200°F (650 °C)	
				Continuous 1200°F (650°C)
				Cyclic 1200°F (650°C)
Density (dry) nomin	nal			12 lbs./cu. ft.(192 kg/m ³)
Compressive streng	gth average – 5% defo	rmation		134 psi
	/erage			
Water absorption				·
By volume @ 90%	relative humidity 4 wee	eks		1.30%
By volume, immers	ed 24 hours			2.70%
	er 24 hours immersior			
	Irochloric acid			No effect
				Dana Test Passed
Thermal conductivit	ty expressed as BTU/ł	nr./ft²/ºF/in.		
(SI Units W/M-K)	, ,			
(, ,			ASTM C-335	ASTM C-177
200°F (93°C)			.48 (.069)	.53 (.076)
300°F (149°C)			.54 (.078)	.58 (.084)
400°F (204°C)			.59 (.085)	.63 (.091)
500°F (260°C)			.65 (.094)	.68 (.097)
600°F (316°C)			.70 (̀.101)́	.72 (.104)
700°F (371°C)			.76 (.110)	.77 (.112)
()			- (- /	,
Complies with:	A.S.T.M. C-610	MIL.I 24244 A&B		
	A.S.T.M. C-692	NRC 1.36		
	A.S.T.M. C-795	UL 1709 Section 9	9 (74 Min)	
	A.S.T.M. C-871		, ,	

STANDARD SIZES

Goodtemp simplifies metric conversion through the use of standard one meter lengths.

Pipe Insulation

Pipe insulation		
Pipe Sizes	Sectional	1/2" IPS through 20" IPS
·	Quads	22" and 24" IPS (2" through 4" thick)
	Curved Radius Block	20" IPS and larger
Thickness	1" through 4" single layer	
THICKICSS	(Double layer per customer requirements)	
Standard Length		39.37" (1 meter)
Block Insulation		
Standard Width		6", 12", 18"
Standard Length		39.37" (1 meter)
		1" through 6" in 1/2" increments
V-Grooved/Scored		1" through 4" in widths of 12" and 18"

Note: GOODTEMP has manufacturing capabilities for special applications such as:

1. Single layer pipe insulation thicknesses in excess of 4"

- 2. Tubing sizes for small diameter piping
- 3. Mitered elbow and tee covers

