

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

low absorption, corrosion guard, construction savings
does not act as wick, protects against actual fire damage
provides corrosion inhibition for austenitic stainless steel and other ferrous metals
less than 1% linear to 1200°F
acid resistant; contains virtually no chloride, no lime
no health hazards, meets OSHA requirements
easier installation, improved appearance, longer life
all one meter lengths
full rating without double layers
because it's pink, you can easily spot asbestos free GOODTEMP
binder does not burn out, material will not flake, or discolor

PHYSICAL PROPERTIES

Temperature Limits	S			Maximum 1200°F (650 °C) Continuous 1200°F (650°C)
				Cyclic 1200°F (650°C)
	nal			12 lbs./cu. ft.(192 kg/m ³)
	gth average – 5% def			
	verage			
				54 psi
Water absorption		-1 -		4.000/
By volume @ 90%	relative humidity 4 we	eks		1.30%
	sed 24 hours			2.70%
	ter 24 hours immersio			NI. off. of
25% Sulturic or nyo	drochloric acid			No effect
Chloride Stress Co	rrosion Cracking	// /tr2 /0 /:	• • • • • • • • • • • • • • • • • • • •	Dana Test Passed
	ty expressed as BTO	nr./π /°F/In.		
(SI Units W/M-K)			A C.T.M. C. 0.0.E	ACTM C 177
000°E (00°C)			ASTM C-335	
			.48 (.069)	.53 (.076)
300 F (149 C)			.54 (.078)	.58 (.084)
400 F (204 C)			.59 (.085)	.63 (.091) .68 (.097)
600°E (216°C)			.65 (.094) .70 (.101)	.72 (.104)
700°E (271°C)			.76 (.101)	.72 (.104)
700 F (371 G)			.76 (.110)	.// (.112)
Complies with:	A.S.T.M. C-610	MIL.I 24244 A&B		
Complics with.	A.S.T.M. C-692	NRC 1.36		
	A.S.T.M. C-795	UL 1709 Section	9 (74 Min)	
	A.S.T.M. C-871	32 17 00 COOLOTT	· (, , , , , , , , , , , , , , , , , , ,	

STANDARD SIZES

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

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Note:

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	
	(Double layer per customer requirements)
Standard Length		39.37" (1 meter)
Block Insulation		
Standard Width		6", 12", 18"
Standard Length		39.37" (1 meter)
Thickness		1" through 6" in 1/2" increments
V-Grooved/Scored		1" through 4" in widths of 12" and 18"
Curved Block Segme	ents	20" diameter and larger

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



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