# **PIPE & EQUIPMENT INSULATIONS**

### Sproule WR-1200<sup>®</sup> PERLITE PIPE & BLOCK INSULATION

Industrial Insulation Group, LLC A Calsilite/Johns Manville Joint Venture

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#### DESCRIPTION

Sproule WR-1200<sup>®</sup> is a pre-formed, high temperature, non-wicking pipe and block insulation composed of expanded perlite uniformly reinforced with a high strength fiber for use on systems operating up to 1200°F (649°C). It is inorganic, non-combustible and meets or exceeds the physical property requirements of ASTM C610. Sproule WR-1200 is produced with a blue visual color coding dispersed throughout the product to assure it can be identified as asbestos-free. Integral to Sproule WR-1200 is **XOX** a distinctive formula and process that inhibits corrosion to outside surfaces of pipe and equipment, especially stress corrosion cracking of austenitic stainless steel.

#### **APPLICATIONS**

Because of its compressive strength, low thermal conductivity and corrosion inhibiting properties, it is an excellent product for application on high temperature piping and equipment. In industrial processing and power generation facilities, Sproule WR-1200 is the preferred product for stainless steel piping, which is very susceptible to stress corrosion cracking at operating temperatures above 140°F (60°C). The XOX feature inhibits corrosion where moisture and chlorides may become trapped between insulation and stainless steel.

#### **ADVANTAGES**

Guards stainless steel against corrosion

No binders to burn out; no loss of insulation integrity

Resistant to mold growth

Pipe insulation sections shrink-wrapped with poly film for protection from abrasion during shipment

Block insulation manufactured with reinforcing scrim beneath the outside surface enhancing structural integrity

Available Forms and Sizes			
Pipe Sizes			
in.	mm		
1/2 - 40	15-1000		

See Sproule WR-1200 Packaging and Shipping Data (IIG-P-5) to determine form by I.D. pipe size. Double layer must be specified at time of order entry.





## Sproule WR-1200<sup>®</sup>

INSULATION	WI	DTH	THICKNESS		
TYPE*	in.	mm	in.	mm	
Pipe**	-	-	1-4	25-102	
Flat Block	6 or 12	152 or 305	1-5	25-127	
Scored Block	12	305	1½-5	38-127	
V-Groove Block	12	305	2-5	51-127	

Notes:

\*All pipe and block insulation products are 36" (914 mm) in length. \*\*Double layered pipe insulation is available for heat-traced line applications.

#### **V-GROOVED BLOCK APPLICATION GUIDE**

Minimum Diameter					
Insulation	Thickness	Triple Scored		Single Scored	
in.	mm	in.	mm	in.	mm
1½	38	30	762	95	2413
2	51	40	1016	125	3175
21/2	64	50	1270	155	3937
3	76	60	1524	190	4826
31/2	89	70	1778	220	5588
4	102	-	-	250	6350



#### **FIRE SAFETY**

Surface Burning Characteristics. When tested in accordance with ASTM E 84, Sproule WR-1200 has flame spread/smoke developed ratings of 0/0.

**Hot Surface Performance**. Sproule WR-1200 passes ASTM C 411 to 1200°F (649°C).

#### **SPECIFICATION COMPLIANCE**

ASTM C 610 ASTM C 1338 ASTM C 795 NRC Reg. Guide 1.36 Mercury Free Food Grade Acceptable Certification of Conformance available on request.

#### THERMAL CONDUCTIVITY ("k")\*



C 177, ASTM C 518.

#### MINIMUM PHYSICAL PROPERTY REQUIREMENTS OF ASTM C 610

Average Density	. 13.0 lbs. per cu. ft. (208.3 kgs./m <sup>3</sup> )
Flexural Strength	
Community Ctronath	ASTM C 203
	% Compression
Lincov Chrinkova	ASTRIC TOS
	Less Indii 2.0% Aller 24-Hour
	Soaking Period at 1200°F (649°C)
Mariana Camina Tanan anatana	ASTM C 350
Maximum Service Temperature	I200°F (649°C)
Curfo co Durning Characteristics	ASTM C 411
	Fidme Spread - 0
Asid Desistance	ASTME 84
	Aller I week exposure:
10% Juliulic Aciu	No Effect
Water Absorption	No Effect
	0.40/
By Woight Avg	
by weight-Avg	۵.0% ۸۲۲۸ C
Correction Protection	ASTWICTO
	Dassas
ASTMIC 795	
ASTIME TOTA COTOSIVENESS, SIEEL	Fasses

#### **GOVERNMENT CERTIFICATION**

When ordering material to comply with any government specification or any other listed specification, a state-ment of the fact must appear on the purchase order. Government regulations and other listed specifications require specific lot testing, and prohibit the certification of compliance after shipment has been made. There may be additional charges associated with specification compliance testing. Please refer to IIG-CSP-3 for certification procedures and charges.

Industrial Insulation Group, LLC is a Calsilite/Johns Manville joint venture. IIG manufactures MinWool-1200® mineral fiber pipe, block and a variety of other insulations; Thermo-12® Gold Calcium Silicate pipe and block insulation; Super Firetemp® fireproofing board; SprouleWR-1200® Perlite pipe and block insulation; high temperature adhesives, and insulating finishing cement.



The physical and chemical properties presented herein 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. Numerical flame spread and smoke developed ratings are not intended to reflect hazards presented by these or any other materials under actual fire conditions. Check with the Customer Service Office to assure current information. All Industrial Insulation Group products are sold subject to the IIG Limited Warranty and Limitation of Remedy. For a copy of the IIG Limited Warranty and Limitation of Remedy, email - info@iig-IIc.com.

#### CUSTOMER SERVICE, TECHNICAL & GENERAL INFORMATION (800) 866-3234