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MATERIALS		THERMAL INSULATION STANDARD ENGINEERING SPECIFICATION	
MATERIAL SPECIFICATION SERIES 100 PREFORMED BLOCK AND PIPE		ISSUED	OCT 1954
		REVISED	OCT 1964
		SN 100 M Page 1 of 13	
Code		102*	
Material		Calcium silicate	
Material Description		Staple, cellular, calcined fire clay base	
Filler			
Blender			
Temperature Range		100°F to 1200°F	
K Factor		300°F = 0.54 max	
Density		11 lb per cu ft	
Compressive Strength		65 lb per sq in. min at 5% deformation	
Manufacturing Process		Machine extruded, Pipe mach cut on diameter	
Resistance to Breakage in Handling	Block must average 3" or greater in drop test per ASTM C 487, tentative method of test for resistance to dropping of preformed block thermal insulation.		
Dimensions		ASTM **	
Other Qualifications		Good mechanical strength with low shrinkage	
The following materials have proven satisfactory in field tests and proof has been furnished by the manufacturers that their product meets the above specifications.			
*Bands are supplied at extra cost. Order must state "without bands" if not required. For 11" IPS and larger there is an additional charge for 2-in. extra cover. Material should be specified "without 2-in. extra" to avoid extra charge. **New Simplified Dimensional System sponsored by ASTM ***Fiber Board Paper Products Corp †Codes 184 and 186 are comparable dimensions unless noted on the Product Specifications. ††Fittings available in sawed, welded, and cast types.		Calcillite The Rubenoid Co	
		Kaylo Quanta-Corning Corp	
		Thermabestos Johns-Manville Sales Corp	
		Tricelite Mundt Corp	
		Calcamp Palco Ind Ins Div ***	
		Caroyamp† Phila Caroy Mfg Co	
		Thermal Seldin-Brown-Hill, Inc.††	DUP 0990067

Vendors and merchandise designations are given to describe materials
and may not include all acceptable products. Substitutions are to be made
only on approval of the authority having the use of this specification.

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DU 045886

Case		104	106
Material	Inorganic silicates		Asbestos fiber and sodium silicate
Material Description	Inorganic silicas and asbestos fibers		Compressed fluffy amosite asbestos fiber sprayed with sodium silicate to form a mat containing a minimum of 20% sodium silicate by weight. Asbestos mat is then sprinkled with glass-maceous earth to provide an integral refractory coating
Filler			
Binder			
Temperature Range	100°F to 1800°F		200°F to 1200°F
K Factor	Block - 500°F - 0.58 max		500°F - 0.54 max
Density	Block - 14 lb per cu ft		18 lb per cu ft
Compressive Strength	65 lb per sq in. min at 5% deformation		27 psi at 10% deformation - dry
Manufacturing Process			Formed and cured on mandrel. Pipe mach cut on die
Resistance to Breakage in Handling	Block must average 3" or greater in drop test per ASTM C 487, tentative method of test for resistance to dropping of preformed block thermal insulation.		
Dimensions			
Other Qualifications	Good mechanical strength. Shrinkage less than 2% at 1600°F		Formed on a mandrel to a predetermined wt. Pressed to obtain the desired density, and baked.
The following materials have proven satisfactory in field tests and proof has been furnished by the manufacturers that their product meets the above specifications.			
* Min thickness available 1 1/2", also available in pipe covering on special order. * Pipe covering only.			Unibestos Pittsburgh Canning Corp
	Rayle 20° Owens-Corning Corp		
			DUP 0990068

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