

— **BLON** —

THESE ARE THE ONLY TWO BOOKS IN THE SERIES THAT ARE AVAILABLE IN BOTH HARDCOVER AND PAPERBACK EDITIONS. THE OTHERS ARE ONLY AVAILABLE IN HARDCOVER EDITION.

DU 045955

SH 100 M		MATERIAL SPECIFICATION - SERIES 100		OCTOBER 1954
Page 2		PREFORMED BLOCK AND PIPE		This Page Rev Oct '53
Code	104	106		
Material	Inorganic silicates	Asbestos fiber and sodium silicate		
Material Description	Inorganic silicates and asbestos fibers, normally used on hot surfaces operating in the temperature range shown below.	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 diatomaceous earth to provide an integral refractory coating.		
Temperature Range	1100 F to 1300 F	1200 F max		
K Factor Btu/(hr)(sq ft)(°F in.)	Block, 0.38 max or 300 F mean	0.34 max or 400 F mean 0.65 max or 600 F mean		
Density	Block - 14 lb per cu ft	16 lb per cu ft nom		
Compressive Strength	65 lb per sq in. min or 3% deformation	27 lb per sq in. or 10% deformation - dry		
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.			
Other Qualifications	Good mechanical strength. Shrinkage less than 2% at 1400 F. Minimum thickness available 1/2", also available in pipe covering on special order. Colored pink for identification.	Formed on a mandrel to a pre-determined weight. Pressed to obtain the desired density, and baked. Pipe mach cut on dia. Stressed Type 304 stainless steel U-bend specimens at 100 C, when in contact with this insulating material in the Du Pont high test with 1500 ppm chloride as NaCl in the test water, shall show no cracking at the end of 144 hours exposure.		
The following materials have proven satisfactory in field tests and proof has been furnished by the manufacturers that their product meets the above specifications.				
Pipe covering only	Kevlar 20	Asbestos *		
Molded fitting covers are not available in Code 106. They are available in Code 102.1 which is satisfactory for use on austenitic stainless steel.	Gowans-Corning Corp	Pittsburgh Corning Corp		



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