

INSULATING & FINISHING CEMENTS AND FILLS

Specification Data

	FINISHING CEMENTS				INSULATING CEMENTS				FILLS	
	301	302	352	0352	85% Magnesia	Superex	450	500	Fibrofil	Fil-Insul
Packaging (lbs per bag)	50	50 or 100	50 or 100	50 or 100	25	50	50	50	60	65
Temperature Limit	1400F	1000F	1000F	1000F	600F	1900F	1800F	1800F	1800F	1000F
Coverage per 100 lbs Applied & dried 1" thick	36 sq ft	25 sq ft	19 sq ft	19 sq ft	55 sq ft	45 sq ft	50 sq ft	78 sq ft	—	—
Approximate Ratio water to mix per 100 lbs	15 gals	21 gals	12 gals	12 gals	42 gals	30 gals	30 gals	36 gals	—	—
Density, Dry	18 pcf	20 pcf	20 pcf	30 pcf	20 pcf	12 pcf	8 pcf	10 pcf	18 pcf (packing)	15 pcf (packing)
Base Material	hydraulic setting cement	asbestos	asbestos	asbestos	mag. carbonate	diatoma- ceous silica	mineral wool	expanded vermiculite	diatoma- ceous silica & asbestos fiber	mineral fiber
Color	light gray dries white	light gray	gray	gray	white	light brown	gray	golden gray	—	—

*The figures given in this table are average values obtained in accordance with accepted test methods.

	MEAN TEMPERATURE, F									
	200	300	400	500	600	700	800	900	1000	
No. 301	—	.85	.86	.87	.88	.90	.91	.93	.95	
No. 302	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	
No. 352	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	
No. 0352	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	
No. 450	.67	.72	.76	.81	.86	.91	.96	.99	1.01	
No. 500	.74	.79	.83	.88	.92	.97	1.02	1.06	1.11	
85% Magnesia	.51	.54	—	—	—	—	—	—	—	
Superex	.75	.77	.79	.82	.84	.86	.89	.91	.94	
Fibrofil	.59	.61	.62	.63	.65	.66	.68	.69	.70	
Fil-Insul	.53	.58	.64	.70	.76	.83	.91	—	—	

CONDUCTIVITY: BTU IN PER SQ FT PER F PER HR

Navy 450 Cement meets MIL-C-2861, HH-C-168
and HH-I-00500, Type III.

85% Magnesia Cement meets HH-I-00500, Type I.

Superex Cement meets HH-I-00500, Type V.

352 Asbestos Cement meets MIL-C-2908.

SHORT-FORM SPECIFICATIONS

FINISH OVER BLOCKS

Asbestos cement (J-M No. 352, 0352 or 302) in two coats, or hydraulic setting cement (J-M No. 301) in one coat, shall be applied over hexagonal wire mesh stretched tightly over blocks and securely wired in place. The first coat of asbestos cement shall be left rough and allowed to dry thoroughly before applying second coat. Second coat of asbestos cement shall be mixed 2 to 1 by weight with portland cement and troweled smooth. Insulating cement (J-M No. 450) may be substituted for first coat in lieu of asbestos cement.

VALVES, FITTINGS AND FLANGES

On piping 4" and larger, valves, fittings and flanges shall be insulated with pipe or block insulation of same material fabricated in sections, or pieces wired in place, and finished with a filling and smoothing coat of asbestos cement. On pipe sizes smaller than 4" insulating cement (J-M No. 450) shall be used with an asbestos cement (J-M No. 352, 0352 or 302) finish. J-M No. 301 shall be applied in one coat over small pipe fittings.

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