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Property Comparison Chart for High Temperature Press Insulation Materials

Property	Units	Material								
		Ultratemp I	Ultratemp II	H-91	Ultratemp SD	Marinite P	SG-70	Cogetherm M	Glastherm HT	ATM 2000
Density	PCF	100	115	120	60	60	130	134	123	117
Compressive Strength	PSI	10,400	15,500	16,675	7,000	5,850	12,325	36,250	27,000	6,000
Flexural Strength	PSI	2,600	4,500	4,350	1,600	NA	8,400	33,350	31,000	NA
Shear Strength	PSI	2,100	2,200	3,700	NA	NA	NA	NA	NA	NA
Thermal Conductivity (@ 250°F)	BTU-in./hr.-ft ² -°F	2.4	3.6	3.4	1.0	1.1	4.0	1.1	1.9	4.5
Volume Resistivity	Ohm/in. x 10 ¹⁰	2.80	2.54	2.55	NA	NA	NA	NA	NA	NA
Arc Resistance	Seconds	260	330	>360	NA	NA	NA	>420	NA	NA
Water Absorption	% after 48 Hrs.	21	15	10	NA	>3	>10	<1	0.2	14
Max. Temperature	°F	600	1000	1400	2000	1,600	2300	1292	550	2500
Cont. Temperature	°F	450	660	1100	1700	1200	1500	932	425	2000
Chemical Resistance		Fair	Fair	Fair	Fair	Fair	Good	Excellent	Fair	Good
Machinability		Good	Good	Excellent	Excellent	Excellent	Fair	Excellent	Excellent	Poor
Max. Sheet Size	Inches	48 x 96	36 x 48	37 x 49	48 x 96	48 x 96	48 x 48	40 x 48	48 x 96	36 x 36

- The above values represent typical average values derived in accordance with accepted test methods and are supplied as a technical service. The values are subject to normal manufacturing and experimental variations, and are subject to change without notice.
- NA = Data not available