

# INORGANIC CERAMIC CEMENTS

TYPICAL PROPERTIES OF SAUERISEN INORGANIC CERAMIC CEMENTS FOR HIGH TEMPERATURE.

PRODUCT NO.	MAX. SERVICE TEMP. @ (°F)	COEFFICIENT OF THERMAL EXP. (°F)	DIELECTRIC STRENGTH (@70°F volts/mil)	VOLUME RESISTIVITY (@70°F ohm-cm)	THERMAL CONDUCTIVITY (Btu. in./ft <sup>2</sup> hr. F°)
<b>AIR SETS</b>					
1	1800	6.2 X 10 <sup>-6</sup>	12.5 - 51	10 <sup>8</sup> - 10 <sup>9</sup>	11.5 - 7.6
P-1	1800	6.2 X 10 <sup>-6</sup>	12.5 - 51	10 <sup>8</sup> - 10 <sup>9</sup>	10.5 - 7.0
2	3000	7.6 X 10 <sup>-6</sup>	48 - 55	10 <sup>8</sup> - 10 <sup>10</sup>	23.2 - 12.6
3	2200	3.4 X 10 <sup>-6</sup>	50-100	10 <sup>6</sup> - 10 <sup>8</sup>	23.0 - 13
6	2500	N/A	12.5 - 51	10 <sup>7</sup> - 10 <sup>8</sup>	N/A
7	2500	6.0 X 10 <sup>-6</sup>	12.5 - 51	10 <sup>8</sup> - 10 <sup>9</sup>	N/A
19	1800	N/A	N/A	N/A	N/A
78	2600	3.7 X 10 <sup>-6</sup>	12.5 - 51	10 <sup>6</sup> - 10 <sup>8</sup>	6.8 - 7.8
P-78	2600	3.7 X 10 <sup>-6</sup>	12.5 - 51	10 <sup>6</sup> - 10 <sup>8</sup>	5.4 - 6.2
<b>CHEMICAL SETS</b>					
4	2200	6.18 x 10 <sup>-6</sup>	50 - 56	10 <sup>11</sup> - 10 <sup>12</sup>	5.47
8	2600	2.6 x 10 <sup>-6</sup>	76 - 101.5	10 <sup>10</sup> - 10 <sup>11</sup>	8.3 - 6.7
10	2400	5.0 x 10 <sup>-6</sup>	55 - 63	10 <sup>8</sup> - 10 <sup>11</sup>	16.2 - 9.7
11	2200	3.4 x 10 <sup>-6</sup>	46 - 54	10 <sup>9</sup> - 10 <sup>10</sup>	4.9
12	2200	3.1 x 10 <sup>-6</sup>	76 - 80	10 <sup>8</sup> - 10 <sup>10</sup>	9.8 - 7.3
13	2600	2.6 x 10 <sup>-6</sup>	55 - 60	10 <sup>6</sup> - 10 <sup>11</sup>	8-11
29	1550	4.6 x 10 <sup>-6</sup>	25 - 51	10 <sup>7</sup> - 10 <sup>9</sup>	9.8 - 5.2
30	900	5.0 x 10 <sup>-6</sup>	N/A	N/A	5-6
DW-30	900	4.7 x 10 <sup>-6</sup>	N/A	10 <sup>8</sup> - 10 <sup>10</sup>	5.8
31	1750	6.2 x 10 <sup>-6</sup>	12.5 - 38	10 <sup>7</sup> - 10 <sup>9</sup>	6.5 - 4.2
33S	1600	7.8 x 10 <sup>-6</sup>	37 - 44	10 <sup>7</sup> - 10 <sup>9</sup>	5.9 - 4.5
350	1700	6.9 x 10 <sup>-6</sup>	20 - 35	10 <sup>6</sup> - 10 <sup>8</sup>	3.8 - 3.6
360	2200	5.5 x 10 <sup>-6</sup>	20 - 40	10 <sup>7</sup> - 10 <sup>8</sup>	6.7 - 6.4
<b>HYDRAULIC SETS</b>					
75	2600	4.1 x 10 <sup>-6</sup>	50 - 60	10 <sup>8</sup> - 10 <sup>9</sup>	4.4 - 4.2
76	2600	5.5 x 10 <sup>-6</sup>	50 - 60	N/A	7.4 - 6.5

Physical properties were determined on specimens prepared under laboratory conditions using applicable ASTM procedures. Actual field conditions may vary and yield different results; therefore, data are subject to reasonable deviation.