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Innovators Of Industrial Ceramic Products

PROX-SVERS® INERT CATALYST SUPPORT BALLS

TYPICAL CHEMICAL ANALYSIS (wt.%)	T-38	T-46
Alumina, Al ₂ O ₃	30 - 38	92 - 96
Silica, SiO ₂	54 - 63	0.3
Calcium, CaO	< 1	4 - 8
Titania, TiO ₂	2	< 0.1
Alkalies, K ₂ O + Na ₂ O	1 - 3	< 0.3
Magnesia, MgO	< 1	< 0.1
Leachable Iron	< 0.001	< 0.02
Leachable Sulphur	None Detected	None Detected
Leachable Chlorides	None Detected	< 0.001

TYPICAL PHYSICAL PROPERTIES	T-38	T-46
Shape	Spherical	Spherical
Avg Crush Strength, lbs (kg) *1/16" (1.6 mm)	> 20 (9)	N/Av
1/8" (3.2 mm)	170 (77)	60 (27)
1/4" (6.4 mm)	325 (147)	100 (45)
1/2" (12.7 mm)	675 (306)	450 (204)
3/4" (19.0 mm)	1500 (680)	710 (322)
1" (25.4 mm)	2750 (1247)	1150 (521)
1-1/4" (31.8 mm)	>3000 (1362)	1350 (612)
1-1/2" (38.1 mm)	>3000 (1362)	1800 (816)
2" (50.8 mm)	>3000 (1362)	>2000 (907)
3" (76.2 mm)	N/Av	>2000 (907)
Loose Fill Packing Density, lbs/ft ³ (kg/m ³)	82 - 88 (1314 - 1410)	≤ 1-1/4" 89 - 98 (1426-1570) ≥ 1-1/2" 95 - 100 (1522-1602)
Apparent Particle Density, lbs/ft ³ (g/cc)	150 (2.4)	220 (3.5)
Water Absorption, Wt. %	< 1	N/Av
Hardness, Mohs ²	6.5	N/Av
Maximum Use Temperature, °F (°C)	2500 (1370)	3200 (1760)
Mean Specific Heat, BTU/ lb-°F	0.25	0.25
Thermal Shock Resistance (heated to 1500°F and quenched in water)	Passed	Passed

* T-38 1/16" has a modified chemistry of 25% Al₂O₃ and 70% SiO₂ and a maximum use temperature of 1800°F.

Above data is based on control test results. Individual test results may vary, therefore this data may not be used for specifications.
Average crush strength values are actual pounds required by a press to break individual spheres.
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