



A WORLD LEADER IN INDUSTRIAL CERAMIC PRODUCTS

4641 McRee Avenue | Saint Louis, MO 63110 USA | P 314.773.7500 | F 314.773.8371 | [www.christycatalytics.com](http://www.christycatalytics.com)

## PROX-SVERS<sup>®</sup> T-38 INERT CATALYST BED SUPPORT BALLS

TYPICAL CHEMICAL ANALYSIS (wt.%)	
Alumina, Al <sub>2</sub> O <sub>3</sub>	31 - 38
Silica, SiO <sub>2</sub>	54 - 62
Calcia, CaO	< 1
Titania, TiO <sub>2</sub>	2
Alkalies, K <sub>2</sub> O + Na <sub>2</sub> O	1 - 3
Magnesia, MgO	< 1
Leachable Iron	< 0.001
Leachable Sulphur	None
Leachable Chlorides	None

TYPICAL PHYSICAL PROPERTIES	T-38
Avg. Crush Strength, lbs-f (kg-f) 1/16" (1.6 mm)*	> 20 (9)
1/8" (3.2 mm)	135 (61)
1/4" (6.4 mm)	250 (113)
3/8" (9.5 mm)	460 (208)
1/2" (12.7 mm)	550 (249)
3/4" (19.0 mm)	1200 (544)
1" (25.4 mm)	2200 (998)
1-1/4" (31.8 mm)	>3000 (1362)
1-1/2" (38.1 mm)	>3000 (1362)
2" (50.8 mm)	>3000 (1362)
Loose Fill Density, lbs/ft <sup>3</sup> (kg/m <sup>3</sup> )	82 - 89 (1314 - 1440)
Compacted Density, lbs/ft <sup>3</sup> (kg/m <sup>3</sup> )	92-98 (1474-1570)
Apparent Particle Density, lbs/ft <sup>3</sup> (g/cc)	150 (2.4)
Water Absorption, Wt. %	< 1
Hardness, Mohs	6.5
Maximum Use Temperature, °F (°C)	2500 (1370)
Thermal Shock Resistance	100% Intact
Hydrogen Pressure Shock	100% Intact

\* T-38 1/16" has a modified chemistry of 25% Al<sub>2</sub>O<sub>3</sub> and 70% SiO<sub>2</sub> and a maximum use temperature of 1800°F.

The above data are based on controlled testing. Individual test results may vary, therefore these data may not be used for specification purposes. Average crush strength values are actual force required by a hydraulic press to break individual spheres.

**NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY, ARE MADE REGARDING THE DATA OR PRODUCTS SHOWN ABOVE.**

Revised: June 27, 2013