

# ALUMINA MICROBALLS 99% PLATINUM

## CHEMICAL COMPOSITION AND PHYSICAL PROPERTIES

AL <sub>2</sub> O <sub>3</sub>	> 99 %
SiO <sub>2</sub>	< 0.15 %
Fe <sub>2</sub> O <sub>3</sub>	< 0.12 %
CaO + MgO	< 0.2 %
TiO <sub>2</sub>	< 0.06 %
Na <sub>2</sub> O	< 0.2 %
K <sub>2</sub> O	< 0.1 %

## PHYSICAL PROPERTIES

E-MODULUS (GPA)	300
HARDNESS (MOHS')	9
SPECIFIC HEAT, 30 °C ~ 100°C (J/Kg · K)	850~1050
THERMAL CONDUCTIVITY, 30 °C ~ 100°C (W/M · K)	19~30
COEFFICIENT OF THERMAL EXPANSION, 30 °C ~600°C (10 <sup>-4</sup> K <sup>-1</sup> )	7~9
HEAT RESISTANCE (up to 0 °C)	1650

## PHYSICAL PROPERTIES

SEPC		BULK DENSITY (g/m <sup>3</sup> )	PACKING DENSITY (t/m <sup>3</sup> )	WATER ABSORPTION (%)	COMPRESSION STRENGTH (N)
INCH	MM				
1/8"	3	3.30~3.60	2.00~2.20	max.6	500
1/4"	6	3.30~3.60	2.00~2.20	max.2	2500
3/8"	10	3.30~3.60	2.00~2.20	max.2	4000
1/2"	13	3.30~3.60	2.00~2.20	max.2	6000
5/8"	16	3.30~3.60	2.00~2.20	max.2	8000
3/4"	20	3.30~3.60	2.00~2.20	max.2	10000
1"	25	3.30~3.60	2.00~2.20	max.3	14000
1 1/4"	30	3.30~3.60	2.00~2.20	max.3	16000
1 1/2"	40	3.30~3.60	2.00~2.20	max.3	18000
2"	50	3.30~3.60	2.00~2.20	max.3	25000