

HEAT STORAGE BALLS

We design and manufacture heat storage balls (diameter: 11mm to 22mm) made of materials such as high alumina, corundum mullite, chrome corundum mullite and zirconia corundum mullite. This brings the advantages of high slag resistance, quick heat transfer, heavy volume weight and large storage capacity. Chrome corundum mullite storage balls overcome common problems such as slagging and pulverization. This is a popular product as our storage balls save energy and have a long service life.

Note: It is recommended to keep the temperature 100°C to 200°C below the maximum service temperature if the three above-mentioned products need to be used for a long period of time.

We customize all products and materials to individual customer needs and specifications.

Physiochemical Performance Indicators

Item	Material	High Alumina Q65/70	Corundum Mullite QM70	Chrome Corundum Mullite QCr-70	Zirconia Corundum Mullite QZr-70
Content of Al_2O_3 (%)		≥65/70	≥70	≥70	≥70
Bulk Density (g/cm ³)		≥2.4	≥2.5	≥2.6	≥2.6
Density (kg/m ³)		1500-1700	1450-1650	1550-1800	1550-1800
Specific Surface Area (m ² /m ³)		Φ11-13mm: 120-160 Φ14-16mm: 105-120 Φ17-19mm: 95-105 Φ20-22mm: 80-95			
Thermal Expansion Coefficient (20-1000°C) (10 ⁻⁶ /K)		≤6.5	≤5.5	≤6.5	≤6.5
Specific Thermal Capacity (J/g·K)		≥1.05	≥1.0	≥1.05	≥1.05
Thermal Conductivity (W/m·K)		≥1.5	≥1.6	≥1.7	≥1.7
1100 °C-20 °C Water Cooling Times (Times)		≥25	≥30	≥30	≥35
Maximum Service Temperature (°C)		1500/1550	1600	1600	1600