



Sphaera

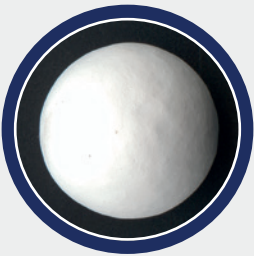
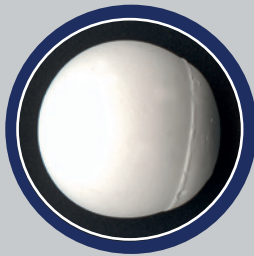
GRINDING MEDIA BALL

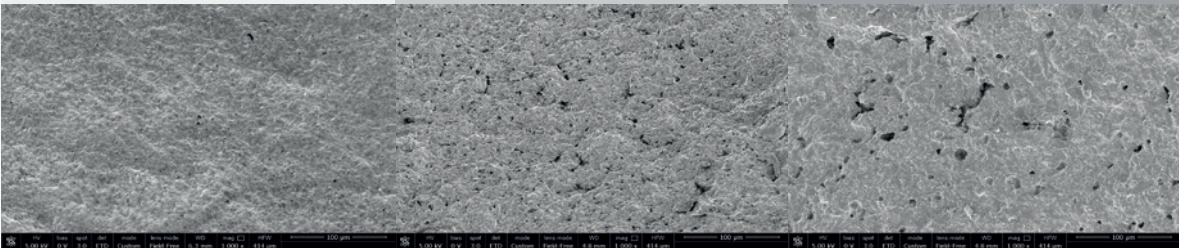
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Terra Trends Ltd is a company specialized in sourcing and developing raw materials for the ceramic tiles production. “Grinding Media” is its new division focussing on Alumina grinding media and aiming to provide competence and competitive technical solutions in this field to the ceramic, mining and chemical industries. “Grinding Media” objective is to provide the most effective solution for the manufacturing processes.

TECHNICAL SPECIFICATIONS

Item code	MSW - 92 High Allumina	MW - 92 High Allumina	MB - 70 Low Allumina
Picture			
Use	Grinding balls suitable for applications where highly efficient grinding must be paired with low grinding media abrasion. Ideal when utilised in the ceramic manufacturing process in wet batch and continuous mills. Excellent for milling ceramic glazes, bodies and engobes.	Grinding balls suitable for applications in the ceramic manufacturing process not only in wet batch and continuous mills but also for milling ceramic glazes, bodies and engobes. Realized by cool isostatic pressing.	Grinding balls suitable for applications in the ceramic manufacturing process in wet batch and continuous mills. Realized by cool isostatic pressing.
Chemical comp. AL ₂ O ₃ SiO ₂	≥92 +/- 1% 7% max	≥92 +/- 1% 7% max	68 % - 70 %
Density	≥ 3.65 g/cm³	≥ 3.60 g/cm³	≥ 2.97 g/cm³
Hardness (Mohs scale)	9	9	≥ 7
Crushing strenght	Excellent	Good	
Yield (within 24 hours)	≤ 0.005 %	≤ 0.015 %	
Water absorption	≤ 0.01 %	≤ 0.01 %	≤ 0.05 %
Size (nominal diameter)	19±1 20±1 22±1.5 25±1.5 30±1.5 35±1.5 40±2 45±2 50±2 60±2	26±1.5 32±1.5 35±1.5 40±2 45±2 52±2 63±2 70±3 80±3	30±1,5 40±2 50±2 60±2 70±3
Colour	White	White	Beige



ALLUMINA GRINDING MEDIA

APPLICATIONS

Alumina balls are ceramic grinding media utilized when mixing and dispersing effects are a key step in the manufacturing process. The main industries where it is possible to use the alumina balls MSW-92, MW-92 and MB-70 are: sanitary production, porcelain production, pigments production, chemical industry, ceramic industry, resins production, etc.

CLASSIFICATIONS

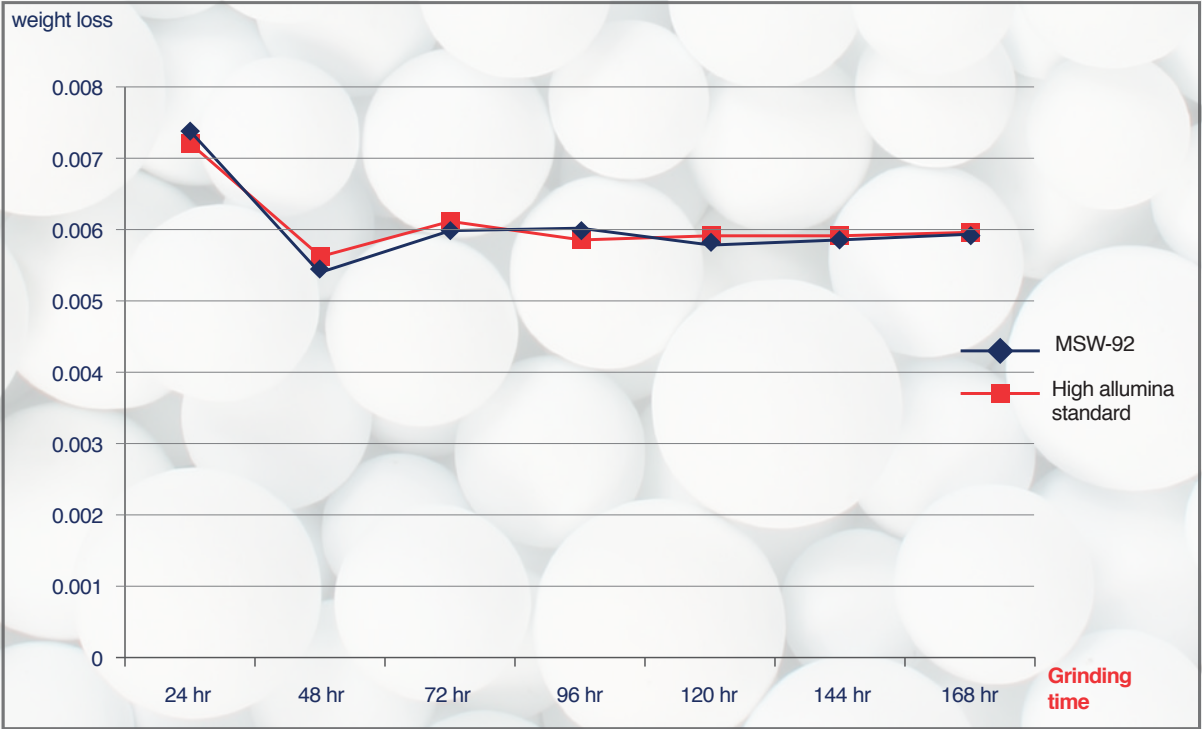
Alumina balls can be classified depending on the kind of process employed for their production.

The MSW-92 alumina balls are produced with a skew rolling mill at high temperature to guarantee a constant yield, high hardness and high density. They are manufactured with high purity alumina.

The MW-92 and MB-70 are produced using the cool isostatic pressing process that guarantees high stability during the product life cycle. The first one, MW-92, is an excellent solution for wet batch and continuous mills (ceramic industry, etc.). The second specification, MB-70, allows to employ alumina balls in the applications where are commonly utilised silica balls. This solution guarantees a good yield and is more cost effective than the alumina balls manufactured with high purity alumina

Contact us for any technical or commercial information. We can also provide you customized solutions. With our products we provide you the opportunity to reduce your manufacturing costs without decreasing the milling performances.

In the graph below it can be found a comparison between the MSW-92 yield and the yield of a standard alumina ball during the milling process.



The Company reserves to change the data contained in any part and without prior notice