

Overview of RockTron Products

Product Range For Eco-Minerals

RockTron's proprietary process refines pulverised fuel ash (PFA) from coal-fired power stations. The process, based on froth floatation, removes and separates the constituent components into discrete products, which are then used in a range of applications, including fillers for paint and coatings, plastics and elastomers. As PFA is a waste product, of which millions of tonnes are in landfill, with more being produced each day by power stations, RockTron is a leader in this market. Its process turns waste materials into value added products, which can be substituted for other, currently used inorganic mineral fillers, so aiding the environment and sustainability.

Fillers produced from PFA by the RockTron process

- Cenospheres – Hollow alumino-silicate glass micro spheres
- Micro spheres – Solid alumino-silicate glass micro spheres
- Magnetite – Solid Iron (as Fe₃O₄ ,60 – 70%) micro spheres

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Some typical properties are:

Cenospheres - CenTron™

Particle density 0.6 - 0.8 g/cm³

Bulk density 0.3 - 0.5 g/cm³

Particle size range 1 – 300 μm

Chemically inert

High melting point (1200 - 1400° C)

Low thermal conductivity (0.1 – 0.2Wm⁻¹ K⁻¹)

Low Oil absorption

Micro spheres - MinTron™

Particle density 2.1 – 2.3 g/cm³

Particle sizes 7 μm and 70 μm median size

Specific surface area < 80 m²/g

Hardness (Mohs Hardness Scale 5 – 6)

Amorphous glass content (approximately 95%)

MagTron™

Particle density 3.5 - 3.6 g/cm³

Particle size range 7 µm and 100µm median size

Colour black

Please [click here](#) for more information on the Fillers RockTron product range