

MicaFort PW80S

This mica product is specially processed to give high aspect ratio particles with a controlled size distribution. The surface is then treated with a functional silane to improve the mechanical properties of polymer compounds into which it is incorporated.

Specified/ controlled properties

Particle size distribution by wet/dry sieving

BS mesh no	Sieve aperture (microns)	Cumulative % passing
60	250	99.9 - 100
100	150	96 - 100
350	45	70 - 95

Loose bulk density	0.15 - 0.35 kg/litre
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Non-specified properties / supplementary information

Chemical Analysis	% by weight	Physical properties	
Silicon as SiO ₂	41.5	Specific gravity	2.8
Magnesium as MgO	24.0	Refractive index	1.58
Potassium as K ₂ O	10.5	Hardness (Moh's scale)	2.5
Aluminium as Al ₂ O ₃	10.0	pH (ISO 787-9)	9
Iron as Fe ₂ O ₃	8.5	Colour L*	76
Loss of ignition at 1000°C	1.5	Moisture (%)	<0.5
Crystalline Silica (by XRD)	<0.1	Malvern D ₅₀ (µm)	35

The chemical and physical data are expected average figures and is given in good faith but without guarantee. All chemical analyses are in the dry state. The only warranty LKAB Minerals makes is the express written warranty extended on the sale of its products. MicaFort PW80S Product definition, 09-06EN, 25-11.