

ECR GLASSFLAKE

UNMILLED

Grade GF500nm

Nanoflake™



Technical Information

Extra Corrosion Resistant glassflake, manufactured from a modified C glass.

Chemical Analysis

SiO ₂	=	64 - 70%
K ₂ O	=	0 - 3%
B ₂ O ₃	=	2 - 5%
ZnO	=	1 - 5%
Na ₂ O	=	8 - 13%
MgO	=	1 - 4%
CaO	=	3 - 7%
Al ₂ O ₃	=	3 - 6%
TiO ₂	=	0 - 3%

Physical Properties

Apparent Density (H ₂ O=1)	0.49
Real Density (H ₂ O=1)	2.60
Softening Temperature DIM 52324	688°C
Melt Temperature (molten - flow)	930 - 1020°C
Refractive Index	1.52

Glass composition may vary slightly from batch to batch

Particle Size Distribution

By **Malvern Mastersizer 3000**
D50 = 140 – 160 µm

Thickness

The nominal thickness of the glass is ca. 500nm

Surface coatings

Glassflake materials are offered with the option of surface pre-treatment from the following range of silane coupling agents;

- 3-Aminopropyltriethoxy Silane (Amino)
- Vinyl trimethoxy Silane (Vinyl)
- γ-Glycidypropyltrimethoxy Silane (Epoxy)
- Methacryloxypropyltrimethoxy Silane (Acrylic)

Packaging

GF500nm is packed in 50kg (net.) box liner

Bulk shipments are further packed in pallet boxes containing 1 sack (50kg net.)
Pallet box dimensions are (L) 1200 x (W) 1100

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This information is given in good faith without guarantee or liability. All Values are approximate.