



dupré Micashield™

Powdered Vermiculite DM393 & DM397

Description

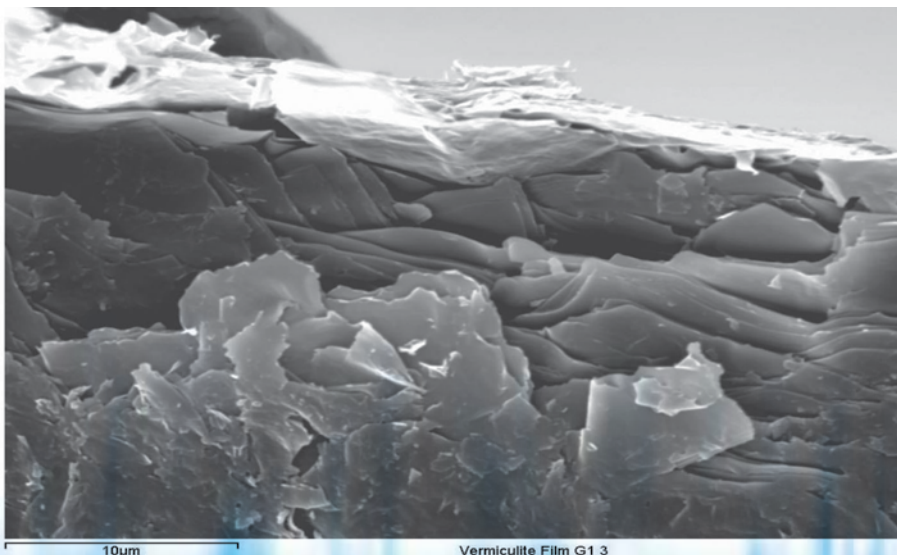
Dupré Minerals Micashield is derived from our successful Micashield DM338S, which is a chemically exfoliated, aqueous vermiculite dispersion that is used as a high temperature and fire resistant coating for technical textiles.

DM393 and DM397 are dry, powdered versions of the water based dispersion and the drying technique ensures minimal agglomeration, and resultant high aspect ratio dry particles (about 500:1 – 1000:1).

DM393 and DM397 are lightweight inorganic products, non-toxic, smokeless and user and environmentally friendly.

Applications for Micashield DM393 & DM397

- Perfect for specialist thin film production
- Can be re-dispersed or used as a dry additive
- Fire Retardant additive to Polymer/Plastic systems



www.dupreminerals.com

Typical Properties

Powdered Vermiculite DM393 & DM397

Appearance

Dupré's Micashield Vermiculite Flame Retardants DM393 & DM397 are light golden/brown powders.

Chemical Analysis (of Source Vermiculite)

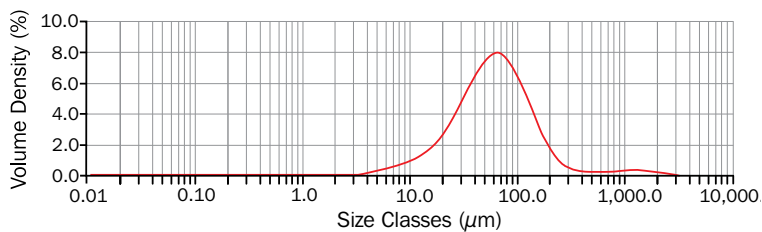
SiO ₂	39.4%	K ₂ O	4.5%	CO ₂	1.4%
MgO	25.2%	Fe ₂ O ₃	4.0%	TiO ₂	0.8%
Al ₂ O ₃	8.8%	CaO	1.8%	F	0.5%

Physical Properties

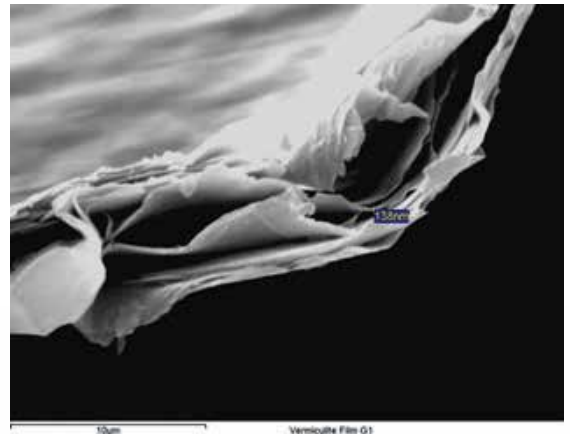
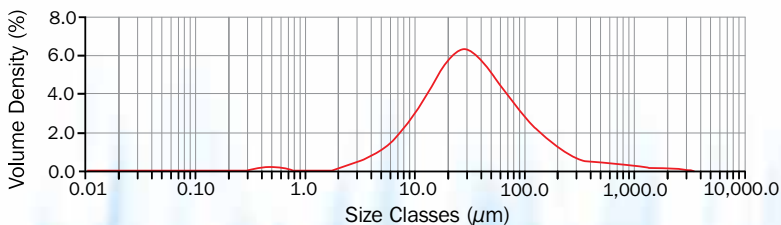
Product Code	D90 Typical (90% less than)	D50 Typical (Average particle size)	D10 Typical (Average particle size)
DM393	160 μm	60 μm	20 μm
DM397	140 μm	30 μm	8.5 μm

Particle Size Analysis (Malvern Mastersizer 2000)

DM 393



DM 397



08/01/2014

Information presented above is given in good faith as accurate and reliable but is not to be taken as a guarantee. The figures provided are intended to be a guide to expected average values and should not be interpreted as a specification. Any potential applications referred to are not to be construed as recommendations. It is the responsibility of the user to determine suitability for any specific purpose.

