

MICROTUFF® AGD

densified appearance grade talcs

MICROTUFF® AGD densified appearance grade talcs are specially designed for applications where color of the finished part is of critical importance. The ultrafine and fine grades offer an optimum balance of stiffness and impact properties. An area of concern, however, is the inherently low powder density, which has contributed to processing difficulties during melt compounding at commercial production speeds.

New densified forms of these fine grade talcs are now available from Specialty Minerals Inc. The MICROTUFF® AGD densified product line eliminates the processing difficulties without effecting dispersion.

MICROTUFF® AGD densified products offer the compounder:

- Minimum dust of product in plant
- Talc dosage is more consistent
- Higher levels of talc can be used
- Delivered cost advantages due to shipping economics

while offering the formulator:

- Optimum balance of stiffness and impact
- Enhanced LHTA (long term heat aging)

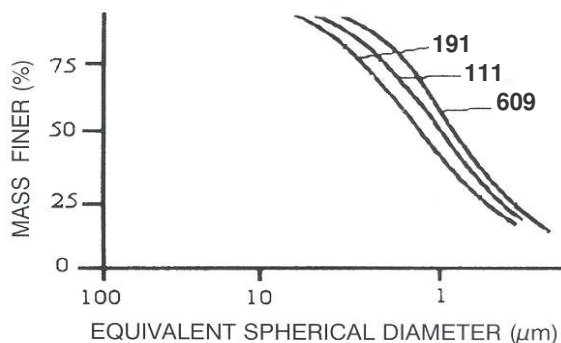
Typical Properties

	Grades					
	609		111		191	
MICROTUFF® AG Reinforcement Talc	609		111		191	
MICROTUFF® AGD Densified Reinforcement Talc		609		111		191
Median Particle Size	0.8	0.8	1.1	1.1	1.8	1.8
Bulk Density (pounds/ft³)	6.4	31	7.5	35	9.5	35
(grams/cc)	0.10	0.50	0.12	0.56	0.15	0.56
Tap Density (pounds/ft³)	20	60	15.5	64	22.3	65
(grams/cc)	0.32	0.96	0.25	1.03	0.36	1.04

Typical Chemical Composition

Silicon Dioxide	SiO ₂	60%
Magnesium Oxide	MgO	33%
Aluminum Oxide	Al ₂ O ₃	1.0%
Iron As	Fe ₂ O ₃	1.2%
Loss on Ignition	L.O.I.	5.5%
Moisture %	H ₂ O	<0.5%
(% weight loss @ 110° C)		

CUMULATIVE MASS % FINER vs. DIAMETER



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