

MICROTUFF® AG TALC

appearance grade talcs

MICROTUFF® talc products are produced in Barretts, Montana from an extensive deposit of high quality talc ore. These products are characterized by a platy shape, closely controlled particle size distribution, and no detectable quantities of any of the asbestiform minerals. This family includes a series of five products ranging from 6 microns top size to 44 microns top size.

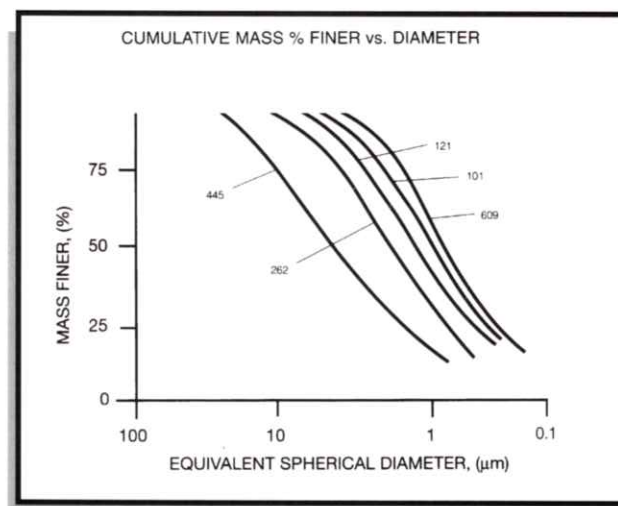
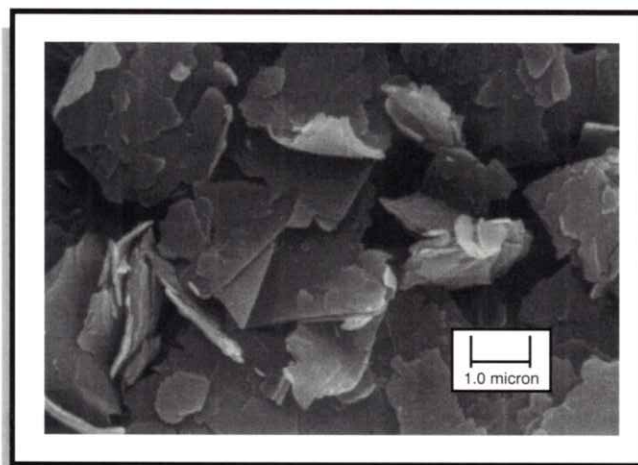
They are specifically designed for polymer applications where color of the finished part is of critical importance. In addition to superior color, polyolefin compounds filled with MICROTUFF® AG talc products have enhanced long term heat stability when compared to compounds filled with unmodified talcs.

Typical Properties

| MICROTUFF® AG | 609 | 101 | 121 | 262 | 445 |
|------------------------------------|------|------|------|-------|------|
| Median Particle Size (microns) | 0.8 | 1.0 | 1.3 | 2.3 | 5.5 |
| Specific Gravity | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 |
| Dry Brightness (Hunter Y,Rd value) | 90 | 90 | 90 | 90 | 87 |
| Bulk Density (pounds/ft³) | 6.4 | 6.4 | 9.5 | 12.5 | 21 |
| (grams/cc) | 0.10 | 0.10 | 0.15 | 0.20 | 0.34 |
| Tap Density (pounds/ft³) | 20 | 22 | 22.6 | 34 | 49 |
| (grams/cc) | 0.32 | 0.35 | 0.36 | 0.54 | 0.78 |
| Retention 325 Mesh, % | nil | nil | nil | trace | 0.6 |
| pH Value | 8.8 | 8.8 | 8.8 | 8.8 | 8.8 |

Chemical Composition (typical)

| | | |
|-----------------------------------|--------------------------------|-------|
| 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 (% weight loss @ 110° C) | H ₂ O | <0.5% |



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