

ASTRACALC 400 & 400 XL

AstraCalc 400 and 400XL are produced from a naturally occurring, white and very pure biomicritic limestone with a calcium carbonate content in excess of 99%. Deposited during the Miocene epoch in an epicontinental environment closely associated with coral reefs, this rock is made up of mostly fossil debris in a matrix of microcrystalline calcareous mud. Compared to similar products made from dense limestone or marble, our products are softer and less abrasive. Grinding tends to break down the amorphous- to microcrystalline calcium carbonate into rounded particles, as opposed to angular shape of those made from other sources of calcium carbonate.

AstraCalc 400 and AstraCalc 400 XL are both targeted as functional fillers, especially in thermosets and thermoplastics applications. Particle shape, reduced surface area and chemical purity that characterize both products offer the following advantages: higher mineral loading, lower paste viscosities, lower abrasion, reduced moisture pickup, less product shrinkage and cracking and lower toxic levels. Other applications include rubber, paint, adhesives, polishing agent, etc. AstraCalc 400 XL is produced by using selective mining methods and detailed quality control to generate a product with a higher calcium carbonate content, as well, as a significantly lower acid insoluble and silicon content than AstraCalc 400.

Both products are available with stearic acid surface coating treatment to aid in its dispersion, as well as increase its hydrophobic characteristics. Products can be shipped in 50 pound multi-wall paper bags (60/pallet), super sacks, or bulk, with a minimum order of 20 Tons.

PHYSICAL PROPERTIES	AC 400	AC 400 XL
Brightness "Y"	> 91.0	> 92.0
Brightness "b"	< 3.2	< 3.0
Median Particle Size (um)	3.7	3.7
@ 90% Mass Finer (um)	12.13	12.13
@ 20% Mass Finer (um)	1.79	1.79
Residue (+ 325 mesh)	0.13%	0.13%
Moisture	< 0.2%	< 0.2%
Oil Absorption (gml/100 gm filler)	18 - 20	18 - 20
Loose Density (lbs/ft ³)	35	35
Tapped Density (lbs/ft ³)	76	76
CHEMICAL ANALYSIS		
Calcium Carbonate - CaCO ₃	> 98.50 %	> 99.25 %
Magnesium + Alkali Salts	< 0.5%	< 0.5%
Acid Insoluble	< 0.2%	< 0.01%
Barium - Ba	< 0.005%	< 0.005%
Fluoride	< 0.005%	< 0.003%
Iron - Fe	< 0.005%	< 0.005%
Silicon - Si	< 0.1%	< 0.01%
Heavy Metals (as lead)	< 0.005%	< 0.005%

