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Onyx Elite® 255 ALUMINUM HYDROXIDE (ATH)

DESCRIPTION

Onyx Elite® 255 is a high purity alumina trihydrate used in the manufacture of solid surface cast polymers. Improved physical performance of solid surface materials results from the selected particle size distribution of Onyx Elite® 255. This product yields low viscosities, excellent air release, reduced matrix settling and a very homogenous casting. Onyx Elite® 255 has a broad particle distribution with a controlled top size (<5% on 100 mesh) which yields excellent packing characteristics.

The median particle diameter, controlled particle distribution and low contaminant level of Onyx Elite® 255 aid manufacturers in obtaining good cure, good translucency and excellent color, when compared to other products offered for solid surface applications.

TYPICAL CHEMICAL ANALYSIS

Al(OH) ₃ , %	99.6
SiO ₂ , %	0.008
Fe ₂ O ₃ , %	0.004
Na ₂ O (total), %	0.2
Na ₂ O (soluble), %	0.02
Loss on ignition (1000°C), %	34.5
Free Moisture (105°C), %	0.1

TYPICAL PHYSICAL PROPERTIES

Screen Analysis	
% on 100 mesh	<5
% on 200 mesh	15-20
% on 325 mesh	50
% through 325 mesh	60
% less than 10 microns	37
Median Particle Diameter, microns	30
Surface Area (m ² /gm)*	1.5
Specific Gravity (gm/cm ³)	2.42
Bulk Density – loose (lbs/ft ³)	1.0
Bulk Density – packed (gm/cm ³)	1.5
Color – L	89

* As measured with a Quantachrome monosorb surface area analyzer (BET)

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