

# SALEM Brown Alpha Aluminum Oxide

## DESCRIPTION

SALEM Brown Alpha is a tough virgin fused brown aluminum oxide abrasive containing no free silica.

## APPLICATIONS

SALEM Alpha is a general purpose blasting and polishing grain that is widely used for flat lapping, polishing, and other finishing operations on materials such as glass, ceramics, granite, silicon, and metal. It is more closely sized than other blasting grains to insure consistent duplication of surface finishes.

## TYPICAL PHYSICAL PROPERTIES

Crystallography: Alpha alumina, in a hexagonal crystal  
Color: Brown  
Specific Gravity: 3.92  
Knoop<sub>100</sub> Hardness: 2050  
Shape: Blocky with sharp edges  
Grading (Grain): ANSI B74.12-1992; Table 2 OR FEPA 42-GB-1984 (R1993)  
Grading (Powder): ANSI B74.10-1977 (R1988) OR FEPA 42-GB-1984 (R1993)  
Bulk Density (Grain): ANSI B74.4-1977 (R1992)

## TYPICAL BULK DENSITY

Grit	g/cc	Grit	g/cc	Grit	g/cc	Grit	g/cc	Grit	g/cc
6	2.17	16	2.03	36	1.87	70	1.79	120	1.70
8	2.14	20	1.99	46	1.85	80	1.74	150	1.67
10	2.13	24	1.96	54	1.84	90	1.71	180	1.63
12	2.09	30	1.93	60	1.82	100	1.71	220	1.61
14	2.06								

## GRAIN SIZES AVAILABLE

6, 8, 10, 12, 14, 16, 20, 24, 30, 36, 46, 54, 60, 70, 80, 90, 100, 120, 150, 180, 220, and 240

## POWDER SIZES AVAILABLE

240, 280, 320, 360, 400, 500, 600, 800, 1000, 1200, F, FF, and FFF

## TYPICAL CHEMICAL ANALYSIS

Al<sub>2</sub>O<sub>3</sub> (by difference) 96.05%  
TiO<sub>2</sub> 2.70  
SiO<sub>2</sub> 0.70  
Fe<sub>2</sub>O<sub>3</sub> 0.10  
CaO 0.15  
MgO 0.30



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