



BTUS – BROWN ALUMINUM OXIDE

BROWN FUSED ALUMINA (AL₂O₃) FOR REFRACTORY & ABRASIVE

ABOUT:

BTUS is a brown aluminum oxide obtained from the reduction of high quality bauxite in an electric arc furnace.

APPLICATIONS:

Due to its high toughness, BTUS is recommended for use in bonded abrasives (grinding wheels, cutoff wheels, points, etc...), coated abrasives (paper & cloth), blasting abrasives, as well as refractory applications.

TYPICAL CHEMICAL ANALYSIS

Al ₂ O ₃	95.62%
TiO ₂	2.84
SiO ₂	0.78
Fe ₂ O ₃	0.20
MgO	0.33
CaO	0.11
Na ₂ O	0.07
K ₂ O	0.05

TYPICAL PHYSICAL PROPERTIES

Crystal Structure:	α-alumina macro crystals from trigonal class, hexagonal system
Melting Point:	3668°F (2020°C)
Hardness:	Knoop 100: 2100 kg/mm ² Mohs: 9
Toughness:	50 (ANSI-B.74.8.1987)
Specific Gravity:	3.92 g/cc
Color:	Brown
Fired Color:	Blue

HIGH DENSITY PRODUCTS - RANGE (g/cc)

Grit	Min - Max	Grit	Min - Max	Grit	Min - Max	Grit	Min - Max	Grit	Min - Max
16	1.98-2.08	30	1.88-1.98	54	1.79-1.89	80	1.69-1.79	120	1.65-1.75
20	1.94-2.04	36	1.82-1.92	60	1.77-1.87	90	1.67-1.77		
24	1.91-2.01	46	1.80-1.90	70	1.74-1.84	100	1.67-1.77		

AVAILABLE SIZES

Mesh: Refractory Split Sizes

Macro: 16, 20, 24, 30, 36, 46, 54, 60, 70, 80, 90, 100, 120, 150, 180, 220 grits

Micro: F240, 280, 320, 360, 400, 500, 600, 800, 1000, 1200 grits

Other Sizes Available Upon Request

The information contained in this data sheet has been determined through the application of accepted engineering practice and is believed to be reliable. Since the conditions of application and use of our products are beyond our control, no warranty is expressed or implied regarding accuracy of the information, the results to be obtained from use of the product, or that such use will not infringe on any patent. This information is furnished with the express condition that you will make your own tests to determine the suitability of the product for your particular use.

USEM

U.S. ELECTROFUSED MINERALS, INC.

600 Steel Street, Aliquippa, PA 15001

Phone: 800-927-8823

email: info@usminerals.com

www.usminerals.com



**ELECTRO
ABRASIVES**

701 Willet Road, Buffalo, NY 14218

Phone: 716-822-2500

Email: info@electroabrasives.com

www.electroabrasives.com



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