



## **Typical Chemistry**

	General	Special
Aluminum Oxide (Al <sub>2</sub> O <sub>3</sub> )	≥ 62 %	≥ 80 %
Iron Oxide (Fe <sub>2</sub> O <sub>3</sub> )	6 -12 %	4 - 8%
Silica Dioxide (SiO <sub>2</sub> )	≤ 25 %	≤ 10 %
Titanium (TiO <sub>2</sub> )	2 - 4 %	2 - 4 %

## **Physical Characteristics**

Color:	Black	
Crystal Form:	Trigonal System	$\overline{I}$
True Density:	≥ 3.50 g/cm³	
Melting Point:	2050°C	
Hardness:	8.0-9.0 (Mohs) 2000-2200 kg/mm² (Vickers)	

# General Black Aluminum Oxide Sizing

3-5 mm, 1-3 mm, 0.4-1.0 mm, 0-1 mm	
F12-F400 Grit (FEPA F: 42-2:2006)	
Other Sizes are Available Upon Request	

## Special Black Aluminum Oxide Sizing

Grits: F46 - F240 (FEPA F: 42-2:2006)	
Powders: F280-F1000 Grit (FEPA F: 42-2:2006)	
Other Sizes are Available Upon Request	



### Description:

**GNP**Graystar's Black Aluminum Oxide is produced by fusing bauxite, iron oxide, and other elements in an arc-furnace. The resulting product has a moderate hardness, high toughness, high temperature resistance, good thermal stability, and excellent self-sharpening.

### Applications:

**GNP**Graystar's Black Aluminum Oxide, due to its thermal stability and low heat generation when polishing, is used to polish metal pieces, especially stainless steel, producing a high smooth finish with little surface discoloration. It is also used in resin bonded abrasives, blasting applications, as anti-skid surfacing material, abrasive belts, flap wheels, fiber wheels, and other polishing & lapping applications.

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