



# GNP Graystar

Specialty Materials

AN ISO 9001 CERTIFIED COMPANY



## TECHNICAL DATA SHEET

### Pink / Ruby Aluminum Oxide

#### Typical Chemistry

	Pink	Ruby
Aluminum Oxide ( $Al_2O_3$ )	99.52 %	97.50 %
Chromium Oxide ( $Cr_2O_3$ )	0.25 %	1.90 %
Iron Oxide ( $Fe_2O_3$ )	0.05 %	0.07 %
Sodium Oxide ( $Na_2O$ )	0.18 %	0.30 %

#### Pink Aluminum Oxide Sizing

Macrogrit Sizing:	ANSI B74.12 Table 2 FEPA F Standard 42-2:2006 FEPA P Standard 43-2:2006
Microgrit Sizing:	FEPA F Standard 42-2:2006 FEPA P Standard 43-2:2006

#### Ruby Aluminum Oxide Sizing

Macrogrit Sizing:	ANSI B74.12 Table 2 FEPA F Standard 42-2:2006
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#### Description:

GNP Graystar's Pink and Ruby Fused Aluminum Oxide contain chromium oxide, which gives the material its Pink and Ruby color. The incorporation of the  $Cr_2O_3$  into the  $Al_2O_3$  crystal lattice produces an increase in toughness and a reduced friability compared with White Fused Alumina.

Compared to Brown Aluminum Oxide the Pink & Ruby materials are harder, more aggressive and have better cutting ability. The grain shape of Pink & Ruby Aluminum Oxide is sharp and angular.

#### Applications:

The FEPA F grades are especially suitable for the manufacture of vitrified bonded abrasives for working hardened steels and alloys with tensile strengths of over 50 kg/mm<sup>2</sup>. These are also used in tool grinding, saw and knife-sharpening applications, precision grinding, profile grinding, flute grinding, tooth grinding, dry grinding of blade segments, and mounted wheels.

The FEPA P grades are a preferred material for working non-ferrous metals and the alloys (copper, aluminum, zinc, brass, bronze), but also used for softer materials, such as wood, synthetics, and paints.

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