



GNP Graystar

Specialty Materials



TECHNICAL DATA SHEET

Pink / Ruby Aluminum Oxide

Typical Chemistry

	Pink	Ruby
Aluminum Oxide (Al ₂ O ₃)	99.52 %	97.50 %
Chromium Oxide (Cr ₂ O ₃)	0.25 %	1.90 %
Iron Oxide (Fe ₂ O ₃)	0.05 %	0.07 %
Sodium Oxide (Na ₂ O)	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 Cr₂O₃ into the Al₂O₃ 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/mm². 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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