

Pink Aluminum Oxide

Technical Data Specification – Typical

Pink Aluminum Oxide (Pink FA / PA)

Pink Aluminum Oxide abrasive is electrically fused from alumina and other materials. The pink colored abrasives has hardness similar and toughness greater than white aluminum oxide. Grinding wheels made of pink aluminum oxide have the features of outstanding durability and producing fine surface finish. Suitable for precision grinding applications with metrology instruments, engine crankshafts, instrument parts, threads and samplers.

Chemical Composition

	Low Chromium			Medium Chromium			High chromium		
Grit Size range	Al ₂ O ₃ %	Cr ₂ O ₃ %	Na ₂ O %	Al ₂ O ₃ %	Cr ₂ O ₃ %	Na ₂ O %	Al ₂ O ₃ %	Cr ₂ O ₃ %	Na ₂ O %
F12~F80	≥98.50	0.20 ~ 0.45	≤ 0.50	≥98.20	0.45~ 1.00	≤ 0.55	≥97.40	1.00~ 2.00	≤ 0.55
F90~F150	≥98.50		≤ 0.55	≥98.20		≤ 0.60	≥97.00		≤ 0.60
F90~F150	≥98.90		≤ 0.60	≥97.80		≤ 0.70	≥96.50		≤ 0.70

Physical Property

Basic Minerals	Crystal Size _{um}	Ture density _{g/cm3}	Bulk Density _{g/cm3}	Knoop Hardness Kg/mm2
α-Al ₂ O ₃	600-2000	≥3.90	1.40~1.91	2200~2300

Macro Grit Sizes:

FEPA F Sizes: F14 to F240 (in accordance with FEPA 42-1: 2006 and ANSI B74.12 standards)

FEPA P Sizes: P12 to P220 (in accordance with FEPA 43-1: 2006 standard)

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. It is 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.

Packaging:

1 Ton Jumbo Bags / 25 Kg PP or Paper Bags