



Pink Fused Alumina (PA)

Pink fused alumina is produced by bayer alumina and right quantity oxidized chromium in an electric arc furnace at high temperatures. Compared with white fused alumina, the product shows similar hardness and lower toughness. The abrasive tools which made of PA have excellent durability and high processing cleanness. The materials are used to grind measuring and cutting tools, instruments, threading workpieces, etc. which demand low roughness on the surface.



Physical Characteristics					
Item	Basic mineral	Crystal system	Crystal color	Mohs hardness	Density
Pink fused alumina	α - Al ₂ O ₃	Hexagonal	Pink	9	$\geq 3.90\text{g/cm}^3$
Item	Micro hardness	Electrical resistivity	Grinding ability (compared with diamond as one)	Linear expansion coefficient (when 900°C $\alpha \cdot 10^{-6}\text{k}^{-1}$)	
Pink fused alumina	HV2200-2300	10^{14} - $10^{16}\Omega \cdot \text{cm}$	0.12	8.3	



Chemical Composition									
Grit	Low chromium			Medium chromium			High chromium		
	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		≤0.50	≥98.20		≤0.55	≥97.40		≤0.50
F90-F150	≥98.50	0.20-0.45	≤0.55	≥98.20	0.45-1.00	≤0.60	≥97.00	1.00-2.00	≤0.60
F180-F220	≥98.00		≤0.60	≥97.80		≤0.70	≥96.50		≤0.70

Note: Special requirement on chemical composition can be satisfied through discussion.

Optional Particle Sizes	
Product Category	Particle Size
PA-low chromium	F12-F220, F240-F2000, JIS240#-10000# etc.
PA-medium chromium	F12-F220, F240-F2000, JIS240#-10000# etc.
PA-high chromium	F12-F220, etc.

Note: Special specification can be customized according to customer's requirements.