



## RU – PINK FUSED ALUMINUM OXIDE

### PINK FUSED ALUMINA (AL<sub>2</sub>O<sub>3</sub>) FOR BONDED ABRASIVES

#### ABOUT:

RU is a pink aluminum oxide obtained by fusion of calcined alumina and chrome ore in electric arc furnaces. Its high purity and self-edged reposition characteristic makes RU a special product for vitrified grinding wheels.

TYPICAL CHEMICAL ANALYSIS	
Al <sub>2</sub> O <sub>3</sub>	99.10%
Fe <sub>2</sub> O <sub>3</sub>	0.04
Na <sub>2</sub> O	0.34
Cr <sub>2</sub> O <sub>3</sub>	0.41

TYPICAL PHYSICAL PROPERTIES	
Specific Gravity:	3.94 g/cc
Knoop 100 Hardness:	1900 kg/cm <sup>2</sup>
Toughness:	43% (ANSI-B74.8 R2007)

TYPES OF TREATMENT		
Treatment	SHAPE	
	Block	Super Block
Not Treated	RU R	RUHD R
Red Coated (RC)*	RURC R	RUHDRC R
Silane Treated (ST)*	RUST R	RUHDST R

BULK DENSITY (g/cc)					
Grit Size	R	HD	Grit Size	R	HD
10	1.72 - 1.82	1.82 - 1.92	50	1.65 - 1.75	1.75 - 1.85
12	1.72 - 1.82	1.82 - 1.92	60	1.64 - 1.74	1.74 - 1.84
14	1.74 - 1.84	1.82 - 1.92	70	1.58 - 1.68	1.68 - 1.78
16	1.73 - 1.83	1.82 - 1.92	80	1.57 - 1.67	1.68 - 1.78
20	1.72 - 1.82	1.83 - 1.93	90	1.52 - 1.62	1.63 - 1.73
24	1.72 - 1.82	1.81 - 1.91	100	1.51 - 1.61	1.63 - 1.73
30	1.72 - 1.82	1.81 - 1.91	120	1.51 - 1.61	1.63 - 1.73
36	1.71 - 1.81	1.79 - 1.89	150	1.46 - 1.56	1.55 - 1.65
40	1.71 - 1.81	1.79 - 1.89	180	1.45 - 1.55	1.53 - 1.63
46	1.71 - 1.81	1.79 - 1.89	220	1.42 - 1.52	1.50 - 1.60

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\*Treatment (RC or ST) can affect bulk density by ± 0.05 g/cm<sup>3</sup>

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# USEM

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