

Pink Fused Aluminum Oxide

RU

RU is a pink aluminum fused 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.

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

General Characteristics

True Specific Gravity	Hardness (Knoop – 100)	Toughness (ANSI-B74.8R2007)
3.94 g/cm ³	1,900 kgf/cm ²	43%

Chemical Analysis by XRF (%)

AL ₂ O ₃	Cr ₂ O ₃	Fe ₂ O ₃	Na ₂ O
99.10	0.41	0.04	0.34

Bulk Density (g/cm³)

Grit Size	R	HD	Grit Size	R	HD
10	1.72 – 1.82	1.82 – 1.92	54	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	1.72 – 1.82	1.82 – 1.92	70	1.58 – 1.68	1.68 – 1.78
16	1.72 – 1.82	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 – 1.70

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*Treatment (RC or ST) can affect bulk density by ± 0.05 g/cm³

The values informed above are typical, for further information contact Applications Engineer Department.

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