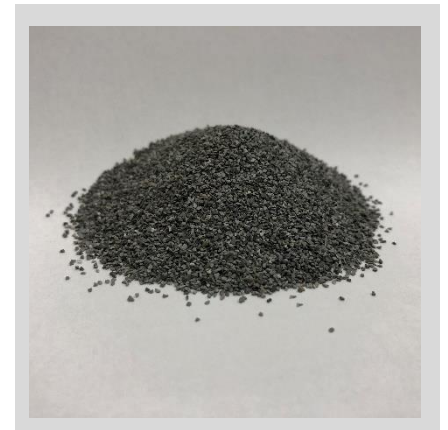


## Zirconia Aluminium Oxide (ZA)

Zirconia aluminium oxide is produced by fusing alumina and zirconia raw material in an electric arc furnace at high temperatures and then by quenching, crushing and sizing to the desired grain size. Especially suitable for stainless steel, carbon steel, alloy steel, etc.

ZA25 is mainly used for high-pressure snagging wheels and large organic grinding wheels.

ZA40 is used for both coated and bonded abrasives.



Physical Characteristics					
Item	Crystal color	Basic mineral	Absolute density	Knoop hardness	Melting point
ZA25	Grey	$\alpha$ - Al <sub>2</sub> O <sub>3</sub> , m.t- ZrO <sub>2</sub>	4.35g/cm <sup>3</sup>	1780kg/mm <sup>2</sup>	1950°C
ZA40	Grey	$\alpha$ - Al <sub>2</sub> O <sub>3</sub> , m.t- ZrO <sub>2</sub>	4.65g/cm <sup>3</sup>	1620kg/mm <sup>2</sup>	1880°C

Chemical Composition						
Type	Chemical composition (% , by weight)					
	Al <sub>2</sub> O <sub>3</sub>	ZrO <sub>2</sub>	SiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	Na <sub>2</sub> O	TiO <sub>2</sub>
ZA25	<76	23.00-26.00	<0.20	<0.25	<0.10	<0.25
ZA40	<60	38.00-42.00	<0.20	<0.25	<0.10	<0.25

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



Guaranteed bulk density range of coarse grains (ZA25, g/cm <sup>3</sup> )			
Grit	Bulk density	Grit	Bulk density
F8	2.19±0.10	F54	1.98±0.10
F10	2.29±0.10	F60	1.96±0.10
F12	2.25±0.10	F70	1.95±0.10
F14	2.19±0.10	F80	1.94±0.10
F16	2.15±0.10	F90	1.94±0.10
F20	2.12±0.12	F100	1.94±0.10
F22	2.11±0.14	F120	1.93±0.10
F24	2.10±0.12	F150	1.93±0.10
F30	2.09±0.12	F180	1.93±0.10
F36	2.03±0.10	F220	1.93±0.10
F46	2.01±0.10		

Note: Special requirement on bulk density can be satisfied through discussion.

Guaranteed bulk density range of coarse grains (ZA40, g/cm <sup>3</sup> )			
Grit	Bulk density	Grit	Bulk density
F12	2.29±0.05	F54	2.01±0.05
F14	2.27±0.05	F60	1.98±0.05
F16	2.22±0.05	F80	1.96±0.05
F20	2.19±0.05	F100	1.95±0.05
F24	2.17±0.05	F120	1.95±0.05
F30	2.12±0.05	F150	1.95±0.05
F36	2.07±0.05	F180	1.95±0.05
F46	2.03±0.05	F220	1.95±0.05

Note: Special requirement on bulk density can be satisfied through discussion.



Guaranteed bulk density range of coarse grains (ZA40, g/cm <sup>3</sup> )			
Grit	Bulk density	Grit	Bulk density
P20	2.18±0.07	P80	1.93±0.07
P24	2.13±0.07	P100	1.86±0.07
P30	2.13±0.07	P120	1.86±0.07
P36	2.13±0.07	P150	1.86±0.07
P40	2.03±0.07	P180	1.86±0.07
P50	2.03±0.07	P220	1.86±0.07
P60	1.97±0.07		

Note: Special requirement on bulk density can be satisfied through discussion.

Optional Particle Sizes	
Product Category	Particle Size
ZA25	F8-F320 etc.
ZA40	F8-F320, P20-P220 etc.

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