

# AZ25 for Bonded Abrasives

## Product codes : 1520

### Description

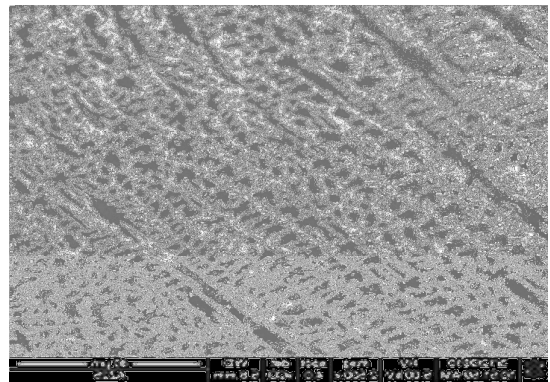
**AZ25 1520** is produced by fusing zirconia and alumina at about 1950°C. This grain consists of fine primary Corundum and Alumina-Zirconia eutectic crystalline structure, which is giving it extremely wear resistant and anti-friable property. It is proved that this grain is very suitable for the tough grinding application, such as high pressure grinding for steel conditioning industry, foundry and snagging.

### Typical Chemical Components

Al <sub>2</sub> O <sub>3</sub>	74.5%
ZrO <sub>2</sub>	25.0%
TiO <sub>2</sub>	0.08%
SiO <sub>2</sub>	0.10%
Fe <sub>2</sub> O <sub>3</sub>	0.15%
Na <sub>2</sub> O	0.05%
CaO	0.15%
MgO	0.02%

### Physical Properties

Crystall Size	~17μm
Specific Gravity	4.30 g/cm <sup>3</sup>
Melting Point	1950 °C
Vickers Hardness	21 Gpa for 50 gram load
Loose Packed Density	2.00-2.40 g/cm <sup>3</sup>

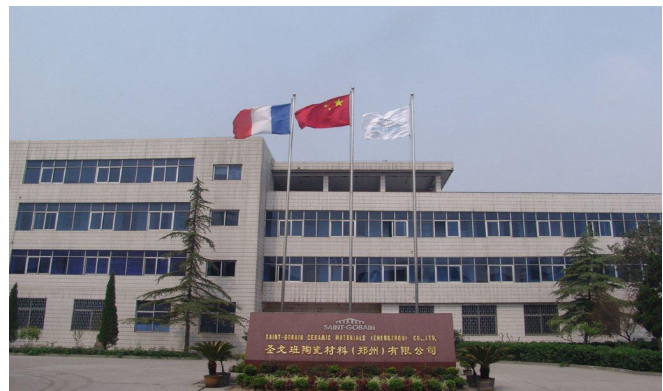


### Application

AZ25 can be widely used for steel conditioning wheels, snagging wheels, Large diameter cutting-offs, and other grinding application which requires high speed and pressure.

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### Particle Size Distribution & Loose Packed Density Specification

Grits	Size Distribution					LPD
	①	②	③	③+④	-⑤	g/cm <sup>3</sup>
4T	+15/6	+3-1/2	+4	+4+5	-6	—
	0	0-20	40+	70+	0-5	
6T	+3-12	+5	+6	+6+7	-8	—
	0	15-30	35+	55+	0-3	
8T	+4	+6	+7	+7+8	-10	2.126-2.297
	0	8-23	30+	65+	0-3	
10T	+5	+7	+8	+8+10	-12	2.222-2.400
	0	2-17	20+	60+	0-8	
12T	+6	+8	+10	+10+12	-14	2.182-2.363
	0	1-16	20+	60+	0-5	
14T	+8	+12	+14	+14+16	-18	2.121-2.302
	0	20-40	35+	60+	0-5	
16T	+10	+14	+16	+16+18	-20	2.071-2.282
	0	5-25	30+	60+	0-5	
20T	+12	+16	+18	+18+20	-25	2.025-2.250
	0	0-20	25+	60+	0-10	
24T	+16	+20	+25	+25+30	-35	2.010-2.242
	0	0-25	45+	65+	0-3	
30T	+18	+25	+30	+30+35	-40	2.005-2.237
	0	0-25	45+	65+	0-3	
36T	+20	+30	+35	+35+40	-45	—
	0	0-25	45+	65+	0-3	

#### Package:

25kg / paper bag