

AZ25 is an electro-fused alumina-zirconia grain, produced by fusing alumina and zirconia raw materials at about 2000 °C temperature in an electric arc furnace. Following a unique process of quenching, crushing, and resizing, we produce the distinct characteristics and the exact grain measurements. AZ25 is extremely wear resistant and anti-friable grain that is widely for bonded abrasives.

AZF25 is a dense, durable material frequently used to produce heavy-duty bonded abrasives. **锆 25 未整形 F 砂**常用于重负荷砂轮的生产。



AZS25 is extremely tough and hard with blocky shape and is re-shaped based on the original AZF25 material. It is frequently used for producing extra-duty bonded abrasives for steel conditioning industry. **锆 25 整形 S 砂** 在 AZF25 的基础上进行整形，具有极高的硬度和韧性，常用于超重负荷砂轮的生产。



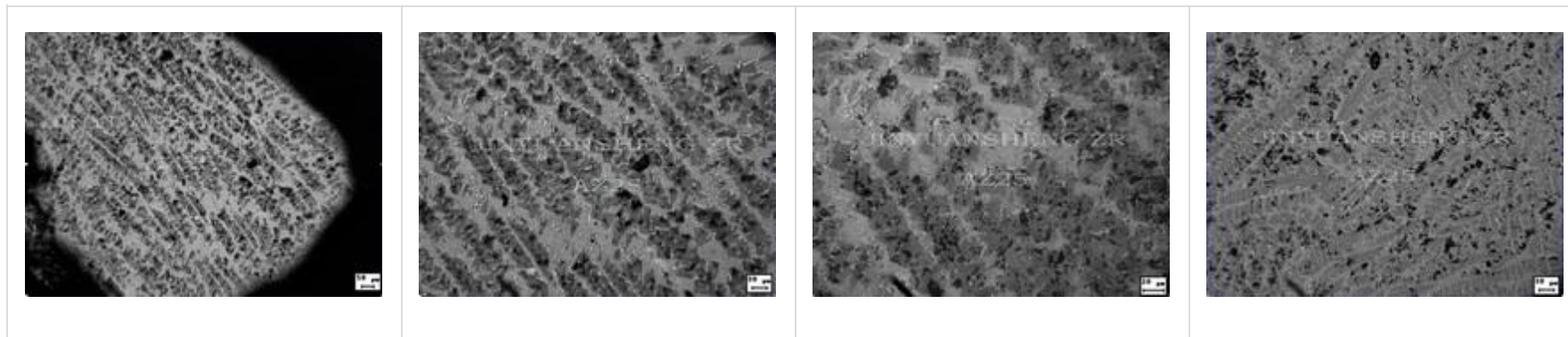
特性 Characteristics

| Structure 结构 | Abosolute De nsity 真比重 | Knoop Hardne ss 努谱硬度 | Melting point 熔点 | Color 颜色 |
|--|---------------------------|----------------------------|---------------------|----------|
| a- Al ₂ O ₃ , m. t – ZrO ₂ | 4.35 g/cm ³ | 1780 kg/mm ² | 1950°C | Grey |

化学成分典型值 Chemical Analysis (typical)

| Al ₂ O ₃ | ZrO ₂ | SiO ₂ | Fe ₂ O ₃ | Na ₂ O | TiO ₂ |
|--------------------------------|------------------|------------------|--------------------------------|-------------------|------------------|
| 75% | 24% | 0.20% | 0.20% | 0.08% | 0.15% |

晶体显微结构 Microstructure , 晶体尺寸 : 17 微米



产量 Capacity: 150MT/month (AZF25 与 AZS25 合计)

锆刚玉应用领域 Applications

| | |
|---|---|
| AZF25 锆 25 未整形 F 砂 | AZS25 锆 25 整形砂 |
| 重负荷砂轮、陶瓷 Heavy Duty Bonded Abrasives | 超重负荷砂轮 Extra Duty Bonded Abrasives |
| Large diameter Cut-Off Wheels Hot-Cutting operations High pressure rough grinding operation Hot-pressed wheels Rail grinding operations(high force) Blasting | Cut-Off Wheels Pressure blasting Hot-Cutting operations high pressure rough grinding operation Hot-pressed wheels Rail grinding operations(high force) |

AZF25 堆积密度 Bulk Density(g/cm3)

| AZF25 堆积密度/bulk density (g/cm3) | | | | |
|---------------------------------|------------|------------|-------------|-------------|
| F4 | F6 | F8 | F10 | F12 |
| - | - | 2.10-2.28 | 2.20-2.38 | 2.16-2.34 |
| F14 | F16 | F20 | F22 | F24 |
| 2.10-2.28 | 2.05-2.26 | 2.00-2.24 | 1.97-2.25 | 1.99-2.22 |
| F30 | F36 | F46 | F54 | F60 |
| 1.98-2.21 | 1.93-2.11 | 1.92-2.10 | 1.90-2.08 | 1.87-2.05 |
| F70 | F80 | F90 | F100 | F120 |
| 1.86-2.04 | 1.85-2.04 | 1.85-2.03 | 1.85-2.03 | 1.88-2.02 |

| | | | | |
|-------------|-------------|-------------|---|---|
| F150 | F180 | F220 | - | - |
| 1.88-2.01 | 1.88-2.00 | 1.88-2.00 | - | - |

AZF25 粒度组成 grain sizes of AZS25

| 粒度 Grain | Sieve1 Oversize | | Sieve2 Coarse Grit | | Sieve3 1 st Nominal | | Sieve3+Sieve4 2 nd Nominal | | Sieve5 -Pan | |
|-------------|--------------------|---|-----------------------|-------|-----------------------------------|-----|--|-----|----------------|------|
| | Mesh | % | Mesh | % | Mesh | % | Mesh | % | Mesh | % |
| F4 | +2.5 | 0 | +3.5 | 0-20 | +4 | 40+ | +4+5 | 70+ | -6 | 0-5 |
| F6 | +3.5 | 0 | +5 | 15-30 | +6 | 35+ | +6+7 | 55+ | -8 | 0-3 |
| F8 | +4 | 0 | +6 | 8-23 | +7 | 30+ | +7+8 | 65+ | -10 | 0-3 |
| F10 | +5 | 0 | +7 | 2-17 | +8 | 20+ | +8+10 | 60+ | -12 | 0-5 |
| F12 | +6 | 0 | +8 | 1-16 | +10 | 20+ | +10+12 | 60+ | -14 | 0-5 |
| F14 | +8 | 0 | +12 | 20-40 | +14 | 35+ | +14+16 | 60+ | -18 | 0-5 |
| F16 | +10 | 0 | +14 | 5-25 | +16 | 30+ | +16+18 | 60+ | -20 | 0-5 |
| F20 | +12 | 0 | +16 | 0-20 | +18 | 25+ | +18+20 | 60+ | -25 | 0-10 |
| F22 | +14 | 0 | +18 | 0-25 | +20 | 45+ | +20+25 | 65+ | -30 | 0-3 |

| | | | | | | | | | | |
|------|------|---|------|------|------|-----|----------|-----|------|-----|
| F24 | +16 | 0 | +20 | 0-25 | +25 | 45+ | +25+30 | 65+ | -35 | 0-3 |
| F30 | +18 | 0 | +25 | 0-25 | +30 | 45+ | +30+35 | 65+ | -40 | 0-3 |
| F36 | +20 | 0 | +30 | 0-25 | +35 | 45+ | +35+40 | 65+ | -45 | 0-3 |
| F46 | +25 | 0 | +40 | 0-30 | +45 | 30+ | +45+50 | 65+ | -70 | 0-5 |
| F54 | +30 | 0 | +45 | 0-35 | +50 | 25+ | +50+60 | 60+ | -80 | 0-5 |
| F60 | +35 | 0 | +50 | 0-35 | +60 | 35+ | +60+70 | 60+ | -100 | 0-5 |
| F70 | +40 | 0 | +60 | 0-25 | +70 | 35+ | +70+80 | 65+ | -120 | 0-5 |
| F80 | +45 | 0 | +70 | 0-35 | +80 | 30+ | +80+100 | 60+ | -140 | 0-5 |
| F90 | +50 | 0 | +80 | 0-25 | +100 | 35+ | +100+120 | 60+ | -170 | 0-5 |
| F100 | +60 | 0 | +100 | 0-25 | +120 | 30+ | +120+140 | 55+ | -230 | 0-5 |
| F120 | +70 | 0 | +120 | 0-25 | +140 | 20+ | +140+170 | 50+ | -270 | 0-5 |
| F150 | +80 | 0 | +140 | 0-25 | +200 | 30+ | +200+230 | 60+ | -325 | 0-5 |
| F180 | +80 | 0 | +170 | 0-20 | +230 | 30+ | +230+270 | 60+ | - | - |
| F220 | +100 | 0 | +200 | 0-15 | +270 | 30+ | +270+325 | 50+ | - | - |

AZF25 堆积密度 Bulk Density(g/cm³)

| AZS25 堆积密度/bulk density (g/cm3) | | | | |
|---------------------------------|-----------|-----------|-----------|-----------|
| F4 | F6 | F8 | F10 | F12 |
| - | - | 2.30-2.44 | 2.42-2.53 | 2.38-2.50 |
| F14 | F16 | F20 | F24 | F30 |
| 2.35-2.46 | 2.31-2.43 | 2.28-2.40 | 2.25-2.36 | 2.23-2.34 |

AZS25 粒度组成 grain sizes of AZS25

| 粒度 Grain | Sieve1 Oversize | | Sieve2 Coarse Grit | | Sieve3 1 st Nominal | | Sieve3+Sieve4 2 nd Nominal | | Sieve5 -Pan | |
|-------------|--------------------|---|-----------------------|-------|-----------------------------------|-----|--|-----|----------------|------|
| | Mesh | % | Mesh | % | Mesh | % | Mesh | % | Mesh | % |
| F4 | +2.5 | 0 | +3.5 | 5-15 | +4 | 30+ | +4+5 | 60+ | -6 | 0-5 |
| F6 | +3.5 | 0 | +5 | 15-30 | +6 | 35+ | +6+7 | 55+ | -8 | 0-3 |
| F8 | +4 | 0 | +6 | 9-24 | +7 | 30+ | +7+8 | 65+ | -10 | 0-3 |
| F10 | +5 | 0 | +7 | 2-17 | +8 | 20+ | +8+10 | 60+ | -12 | 0-3 |
| F12 | +6 | 0 | +8 | 2-17 | +10 | 20+ | +10+12 | 60+ | -14 | 0-5 |
| F14 | +8 | 0 | +12 | 20-40 | +14 | 35+ | +14+16 | 60+ | -18 | 0-5 |
| F16 | +10 | 0 | +14 | 5-25 | +16 | 30+ | +16+18 | 60+ | -20 | 0-5 |
| F20 | +12 | 0 | +16 | 0-20 | +18 | 25+ | +18+20 | 60+ | -25 | 0-10 |

| | | | | | | | | | | |
|-----|-----|---|-----|------|-----|-----|--------|-----|-----|-----|
| F24 | +16 | 0 | +20 | 0-25 | +25 | 45+ | +25+30 | 65+ | -35 | 0-3 |
| F30 | +18 | 0 | +25 | 0-25 | +30 | 45+ | +30+35 | 65+ | -40 | 0-3 |
| F36 | +20 | 0 | +30 | 0-25 | +35 | 45+ | +35+40 | 65+ | -45 | 0-3 |

AZ25 锆刚玉 fused alumina zirconia - AZ25

与日本磨料公司合作开发生产的锆 25 锆刚玉 (AZ25) , 由约 25%比例的高纯电熔氧化锆与纯净的氧化铝原料在电弧炉中经过特殊工艺熔炼及特殊冷却制造。极其耐磨不易碎, 广泛用于重负荷及超重负荷砂轮等固结磨具。部分应用于陶瓷和机械配件。目前产量 150 吨/月。

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