



ATO-W20 TECHNICAL DATA SHEET

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High-performance, high-quality body whitener for ceramics industry.

Characteristics

Formula	$\text{ZrO}_2 \cdot n\text{Al}_2\text{O}_3 \cdot m\text{SiO}_2$
Appearance	White powder
Odor	No characteristic odor
Chemical Family	Inorganic silicate salt
Specific Gravity	4.28 g/cm ³
Solubility In Water	Insoluble
Stability	Chemically stable under normal and anticipated storage and handling conditions
CAS No.	14940-68-2; 302-76-7

Typical Analysis Range

Zirconium Oxide(ZrO_2)	10%~30%
Aluminium Oxide(Al_2O_3)	20%~50%
Silicon Oxide(SiO_2)	20%~50%
Average Particle Size(μm)	1.50~2.50
pH Value	6~9

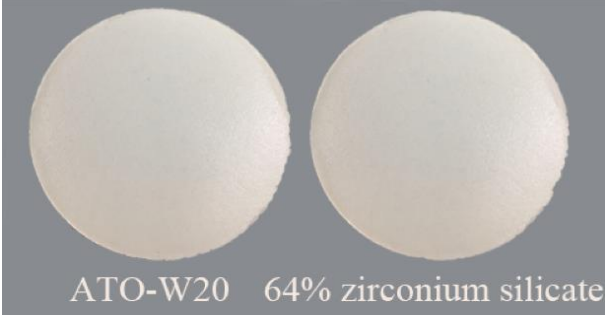
Benefits Summary

ATO-W20 has excellent performances on improving tiles body whiteness with less shrinkage rate.

Recommendations for use

Substitute for zirconium silicate 1:1 in tiles body.

	L	a	b	Shrinkage %
ATO-W20	87.76	-0.50	6.37	4.8
Zirconium silicate ($\text{ZrO}_2=64\%$, APS= 1.2 μm)	86.99	-0.52	6.63	7.2



Packaging

ATO-W20 is provided in 25.0 ± 0.1 kg/bag or 1mT/tote bag.

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