

## AMPERIT<sup>®</sup> 821

<b>Chemical Formula</b>	ZrO <sub>2</sub> -Y <sub>2</sub> O <sub>3</sub> 80-20
<b>Chemical Name</b>	Zirconia-Yttria 80-20
<b>Description of Product</b>	Agglomerated, sintered
<b>Grades Available</b>	<b>Product Designation</b>
	AMPERIT <sup>®</sup> 821.084    75/20 μm
	AMPERIT <sup>®</sup> 821.006    125/45 μm

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### Chemical Characteristics

(Mass fraction in % [cg/g]; ppm [μg/g])

Y <sub>2</sub> O <sub>3</sub>	18.5 - 21.5 %
HfO <sub>2</sub>	max. 2 %
SiO <sub>2</sub>	max. 0.8 %

### Physical Characteristics

Particle Size Distribution	821.006	821.084
+ 75 μm		max. 2 % <sup>1)</sup>
+ 63 μm		max. 10 % <sup>1)</sup>
- 20 μm		max. 15 % <sup>1)</sup>
- 15 μm		max. 6 % <sup>1)</sup>
+ 125 μm	max. 2 % <sup>2)</sup>	
+ 106 μm	max. 10 % <sup>2)</sup>	
- 45 μm	max. 10 % <sup>2)</sup>	
- 38 μm	max. 5 % <sup>2)</sup>	
Apparent Density acc. ASTM B 417	1.3 - 1.8 g/cm <sup>3</sup>	1.0 - 1.6 g/cm <sup>3</sup>

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1) ALPINE Air Jet Screening, 2) ROTAP Screening per ASTM B 214.

<b>Packaging</b>	Standard Packaging for 2.5 kg / 5 lbs 2.5l PE bottle for 5 kg / 10 lbs 6 l PE bottle.
<b>Storage and Handling</b>	Storage and handling are subject to the rules and regulations in the country of use.
<b>Hazards identification in Advertising (REGULATION (EC) No 1272/2008 Article 48)</b>	None.
<b>Documentation</b>	An inspection document in accordance with EN 10204 is supplied with every shipment.
<b>Remarks</b>	Always mix well before using.

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