

AMPERIT[®] 471

PRELIMINARY SPECIFICATION (The product described is still under test.
Amendments of all technical data are possible. Special care has to be taken while processing.)

Chemical Formula	CoCrAlYTaNCSi-Al ₂ O ₃ 90-10
Description of Product	Agglomerated, sintered
Grades Available	Product Designation
	AMPERIT [®] 471.074 45/15 µm
	AMPERIT [®] 471.063 75/45 µm

Chemical Characteristics

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

Co	45.0 - 51.0 %
Cr	21.0 - 24.0 %
Ta	7.0 - 9.0 %
Al	10.0 - 12.5 %
Y	0.4 - 0.8 %
C	0.5 - 1.1 %
Si	0.5 - 1.0 %
O	3.5 - 5.5 %

Physical Characteristics

Particle Size Distribution¹⁾

	471.074	471.063
D 90 %	54 - 63 µm	80 - 95 µm
D 50 %	32 - 38 µm	57 - 68 µm
D 10 %	18 - 23 µm	38 - 48 µm
Apparent Density acc. ASTM B 212	1.8 - 2.3 g/cm ³	1.9 - 2.4 g/cm ³

1) MICROTRAC by Laser Light Diffraction per ASTM C 1070.

Packaging Standard Packaging
5 kg in one 2.5 l PE bottle, 6 bottles (30 kg) in one cardboard box.

Storage and Handling Storage and handling are subject to the rules and regulations in the country of use.

Hazards identification in Advertising (REGULATION (EC) No 1272/2008 Article 48)

Respiratory sensitization Category 1
Skin sensitization Category 1
Eye irritation Category 2
Reproductive toxicity Category 2
Acute aquatic toxicity Category 1
Chronic aquatic toxicity Category 1.

Documentation An inspection document in accordance with EN 10204 is supplied with every shipment.

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