



QuickCut™ Aluminium Oxide

Product Description and Technical Data:

QuickCut™ Aluminium Oxide is one of the most economical processing medias for many dry and wet process applications where anything from a coarse profile to a micro finish is required.

This sharp, angular abrasive is the second hardest mineral after diamond and is especially suitable when no ferrous contamination can be tolerated on the processed surface.

It can be used for the roughest cutting-down operations or in well-conditioned, pebbled form for producing very low microinch finishes on precision dimensioned parts. Its high density and sharp, angular structure make it one of the fastest cutting abrasives available.

QuickCut™ is obtained by a process of electrically fusing and processing high-grade Bauxite to produce Brown Aluminium Oxide, and high-grade Alumina in the case of White and Pink Aluminium Oxide. Their crystalline nature contributes to their hard and fast cutting properties. It is also used widely in the manufacture of bonded and coated abrasives.

QuickCut™ can be recycled many times depending on the grade of material and the actual process and may be used in most types of standard abrasive blasting equipment.



Brown



White



Pink

QuickCut™ Abrasive Properties:

Shape	Angular		
Hardness (Moh Scale)	9		
Particle S.G.	3.9 - 3.94		
Colour	Brown, Pink, White		
Bulk Density (kg/m³)	2400		
Size Standard	FEPA / ANSI		
Brown Aluminium Oxide	GE D50TF5-S8 Class D	ANSI B74.12	Rolls Royce CSS12
White Aluminium Oxide	GE D50TF5-S8 Class A	ANSI B74.12	CID A-A-59316



QuickCut™ Aluminium Oxide

QuickCut™ Typical Chemical Composition:

Compound	Brown #120 and below	Brown #150 - #220	Brown #240	Pink	White
Al ₂ O ₃	≥ 95.0%	≥ 93.0%	≥ 92.0%	≥ 99.0%	≥ 99.0%
TiO ₂	≤ 3.0%	≤ 3.6%	≤ 4.5%	N/A	N/A
SiO ₂	≤ 1.3%	≤ 1.5%	≤ 2.0%	< 0.2%	< 0.1%
Cr ₂ O ₃	N/A	N/A	N/A	< 0.5%	N/A
Fe ₂ O ₃	≤ 0.16%	≤ 0.3%	≤ 0.4%	< 0.15%	< 0.1%
CaO	≤ 0.5%	≤ 0.6%	≤ 0.7%	< 0.5%	< 0.5%
Na ₂ O	N/A	N/A	N/A	< 0.5%	< 0.5%

QuickCut™ Available Sizes:

Grade	12	14	16	20	24	30	36	40	46
Microns	1400 - 2000	1180 - 1700	1000 - 1400	850 - 1180	600 - 850	410 - 500	425 - 600	355 - 500	300 - 425
Inch	.055 - .078	.046 - .067	.040 - .055	.033 - .046	.023 - .033	.016 - .019	.017 - .023	.014 - .019	.012 - .017

Grade	60	80	90	100	120	150	180	220	240
Microns	212 - 300	150 - 212	125 - 180	106 - 150	90 - 125	63 - 106	53 - 90	45 - 75	28 - 70
Inch	.008 - .012	.006 - .008	.005 - .007	.004 - .006	.003 - .005	.0025 - .004	.002 - .003	.0018 - .003	.001 - .0027

Other non-standard sizes available upon request.

QuickCut™ Packaging:

25kg Bags
1 Tonne Pallet (40 x 25kg Bags)

QuickCut™ Ordering Information:

Stock Code: **AAL-XXXYZ**

Key

XXX - Mesh Size (e.g. 030 for Mesh 30)

Y - B for Brown

Y - P for Pink

Y - W for White

Z - Blank for Standard Grade

Z - P for Premium Grade



www.linkedin.com/company/pan-abrasives

