

ABRASIVE GRAIN

Buffing & Polishing / Tumbling



Calcined Alumina



T H E R. J.
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C O M P A N Y

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Calcined Alumina Abrasive Grain

Calcined Alumina is used extensively for a wide variety of cleaning, polishing and deburring applications because of its unique crystal structure. It is the most widely used abrasive, generally used for ferrous alloys, non-ferrous and thermoset plastics. Its particles are made up of many smaller crystals that extend the abrasive and polishing action. The R.J. Marshall Company offers a range of grades based on abrasive properties and particle sizes with quality control that assures consistency of abrasiveness for each shipment.

B-75 High quality color grain intended for high luster on stainless steel, non-ferrous and plastic products.

B-200 A more aggressive grain, but with a very fine particle size. Useful when an intermediate cut is needed.

B-400 A medium abrasive product for more aggressive applications.

B-500 Widely used for properties that are unique. Excellent for flatware, cookware and small appliances.

B-800 High cut but still maintains color properties.

Technical Information	Mild Abrasive B-75	Cut & Color B-200	Cut & Color B-400	Cut B-500	High Cut B-800	Cut & Color GB-50	Cut GB-600
Typical Physical Properties							
+100 mesh	0.1% max	trace	1%	1%	1%	0.05%	1%
+200 mesh	1% max	1% max	60%	56%	68%	0.5%	40%
+325 mesh	10% max	5% max	90%	91%	90%	5%	65%
pH	9.3	9.3	9.3	9.3	9.2	9.2	9.3
Abrasive Value	200	275	475	630	850	225	725
Bulk Density (lbs/ft ³)	45	55	65	60	60	44	65
Oil Absorption Value (ml/100g)	55	35	53	53	51	55	50
Surface Area m ² /g	8-12	0.9					
Primary Crystal Size (um)	1	3-5					
Typical Chemical Properties							
Al ₂ O ₃	99.60%	99.50%	99.50%	99.50%	99.50%	97.7%	98.30%
SiO ₂	0.02%	0.01%	0.018%	0.018%	0.018%	0.04%	0.024%
Fe ₂ O ₃	0.02%	0.012%	0.02%	0.02%	0.02%	0.01%	0.027%
Na ₂ O	0.30%	0.37%	0.3%	0.3%	0.3%	0.42%	0.45%

Green Line - Includes recycled materials. (Cost Effective)

We have extended our line of Calcined Alumina abrasive grain to include several products that are both cost effective and made with pre-consumer (post-industrial) recycled materials. The abrasive grain Green Line might also be a benefit to your current LEEDS or other environmental programs. These lower cost materials will give abrasive properties that are equivalent to standard products.

Product color is not guaranteed with green line products.

GB-50 Gives color but mostly intended for a mild cut.

GB-600 Gives color but mostly intended for a good cut prior to a second operation with B-75 or equivalent.

The R.J. Marshall Company is dedicated to maintaining the highest environmental standards by unwavering compliance with state and federal regulations, waste prevention measures and consistent monitoring of our manufacturing processes. These materials are available from our Rockwood, MI facility and other distribution locations as needed. Samples are available at no charge and truckload pricing for trial quantities.

All statements, technical information and recommendations are based on tests we believe to be reliable, the accuracy or completeness is not guaranteed, and the following is made in place of all warranties, expressed or implied. Our only obligation is to replace product proved to be defective. We shall not be liable for any injury, loss or damage, direct or indirect, from using or not being able to use the product. Before using, customer must determine the suitability of the product for the intended use and customer assumes the responsibility. This statement may not be changed except by an agreement signed by an officer of The R.J. Marshall Company.

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