



CUMIPlas



CUMIPlas ALUMINA TITANIA

It is manufactured by electro fusion of pure low soda calcined alumina pure and titania This is then milled and air classified to yield narrow particle size distributions independent of batch size. The process ensure product free from contaminations.

APPLICATION

- **CUMIPlas AT 3** is used for abrasion, cavitations, erosion and friction resistant hard coatings requiring good heat and oxidation resistance. Because of the typical structure, density and smoothness of surface, this finer powder is suitable for textile machinery components, such as thread guides, twist wheels grooved rolls, guide bars, feed separators, etc. Can be used in many environments, including most acids and alkalis.
- **CUMIPlas AT13** is used primarily when very fine and dense ceramic coatings are required. The typical fine lamellar coating and structure characteristics can be obtained from fine particle size ranges. The main applications are coated parts of textile and chemical machinery compounds: threads guides, guide bars, feed separators, twist wheels, shafts, waves, pumps and in all cases where very dense and smooth deposits with high friction resistance are required. These coatings are dense and smooth. They can be used as radiation absorbers in the 1 micro meter wavelength range (nuclear fusion applications)
- **CUMIPlas AT40** is used for producing very fine and dense flame and plasma sprayed coatings, recommended for applications in textile and chemical industries. The smoothness and typical texture of coated surface ensure low friction with critical and delicate fibers. Coatings for textile machinery components: thread guides, twist wheels, grooved rolls, draw rolls, guide bars, feed separators, heater bars and plates. Coatings for chemical machinery compounds: pumps, waves, shaft sleeves, mechanical seals etc.

AVAILABLE SIZES

Size Range	D10 (Max)	D 50	D 90 (Max)
5 - 25 Microns	25	11.5 - 14.5	5
10 - 40 Microns	40	22 - 26	10
15 - 45 Microns	45	25 - 29	15
22 - 45 Microns	45	30 - 34	22
45 - 90 Microns	90	68 - 72	45

TYPICAL PROPERTIES

Chemical composition			
Constituent	AT 3	AT 13	AT 40
Al ₂ O ₃	96.46 %	86.31 %	59.38 %
TiO ₂	3.01 %	13.16 %	40.13 %
SiO ₂	0.22 %	0.24 %	0.24 %
Fe ₂ O ₃	0.11 %	0.11 %	0.15 %

Packing: 25 kg multiply paper bags of 1000 kg palletized. Other packaging types on request

General Inquiries:-
 salesemd@cumi.murugappa.com
 info@cumi-emd.eu
www.cumi-emd.eu

Alumina Plant:-
CARBORUNDUM UNIVERSAL LIMITED
 Electro Minerals Division
 P. B. No.1, Kalamassery Development Plot PO
 Kochi - 683 109, India
 Tel.: +91 484 2540799; Fax: +91 484 2532019
 salesemd@cumi.murugappa.com

SiC Plant:-
CARBORUNDUM UNIVERSAL LIMITED
 Electro Minerals Division
 P. B. No.3, Nalukettu
 Koratty - 680 308, India
 Tel.: +91 480 2732313; Fax: +91 484 2732821
 salesemd@cumi.murugappa.com

Europe Contact:-
 Schmiedegasse 24
 D-50735 Köln, Germany
 Tel.: +49 (0)151 1274 0882
 Fax : +49 (0)221 2714 0047
 info@cumi-emd.eu