



DenzFlex® Series

DenzFlex® Series Ferric oxide is a high purity hematite-based product. Applications include:

Plastics – Utilized to increase density while imparting sound / vibration damping. DenzFlex® can provide both x-ray and radar blocking. Additional benefits include microwave heat ability and high thermal conductivity which can provide reduced cycle time in plastic molding.

Concrete – When used in concrete, DenzFlex® high specific gravity enables the formulator an outstanding increase in density for building foundations and undersea pipes as well as x-ray shielding for use in hospital radiology units.

	Product Description	DenzFlex® 325
Particle Distribution Size: Microns	12	40
% Passing	-200 Mesh	100
	-325 Mesh	99.7
Bulk Density	(lbs./ft ³)	195
	(g/cc)	3.1
Aspect Ratio		Blocky

Typical Chemical Analysis (WT.) %		
Silicon Dioxide	SiO ₂	1.7
Aluminum Oxide	Al ₂ O ₃	0.2
Magnetite	Fe ₃ O ₄	3.0
Ferric Oxide	Fe ₂ O ₃	95

Typical Properties	
Specific Gravity	5.2 g/cc
Melting Point	1,540°C
Moisture % (@100°C)	<1
pH	7.0
LOI @ 1,000 °C	<1.0
Mohs Hardness	5.5

Chemical Abstract Registry (CAS) No.: 1317-60-8
Free silica is just 0.3 percent by weight
FDA: Arctic Minerals Mica products meet the FDA requirements of Title 21 CFR 175.105.5 Adhesive; 175.300 Resinous and Polymeric Coatings; 177.2600 Rubber articles intended for repeated use; 178.3297 Colorants for Polymers.

Contact us at: 812-283-6616

or Visit: ArcticMinerals.com

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