



CeraBlast™ F

Zirconium Silicate Ceramic Grit

Product Description and Technical Data:

CeraBlast™ F is a fine zirconium silicate ceramic grit developed for controlled abrasive blasting where mild cutting action, smooth surface finish and preservation of fine geometries are important. With a density of 3.9 g/cm³ and a hardness of 8 GPa at 50 g load, CeraBlast™ F combines mild hardness with controlled abrasiveness. Its ceramic composition helps reduce particle embedment, supporting cleaner surface treatment with lower contamination.

CeraBlast™ F is particularly suited to surface treatment processes requiring a less aggressive abrasive action than harder alumina-based grits while still providing the angular cutting action associated with ceramic grit media.



CeraBlast™ F Ceramic Grit

Performance Advantages:

- Mild hardness for controlled surface treatment
- Mild abrasiveness
- Smoother surface finish
- Preserves the integrity of fine geometries
- Reduced particle embedment
- Lower contamination of the treated surface

Main Applications:

Precision Surface Finishing

Controlled abrasive treatment where a smoother resulting surface is required.

Fine-Geometry Components

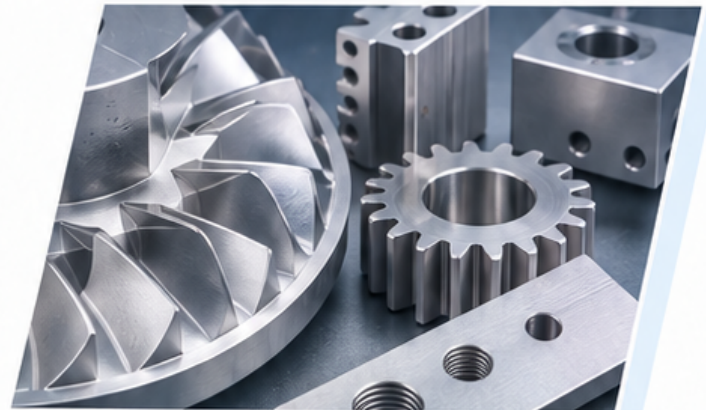
Treatment of components where excessive cutting or loss of edge definition should be minimized.

Surface Cleaning

Removal of unwanted surface material using controlled abrasive action.

Surface Preparation

Creation of a controlled surface condition prior to subsequent processing or coating.



CeraBlast™ F Physical Properties:

Property	Typical Value	Units
Density	3.9	g/cm ³
Hardness	8	GPa, 50 g load
Toughness Index	–	Source index
Sharpness Index	–	Source index





CeraBlast™ F

Technical Properties

CeraBlast™ | Ceramic Blasting & Surface Treatment Media



CeraBlast™ F Typical Chemical Analysis:

Composition	wt%
Al ₂ O ₃	10
ZrO ₂	60
SiO ₂	30
Fe ₂ O ₃	< 0.5
Others (MgO, Na ₂ O, etc.)	< 0.5



CeraBlast™ F Available Sizes:

Grade	Source Size Designation
F205	200 mesh and finer
F170	170 – 400 mesh
F120	120 – 200 mesh

Fine grit coverage: up to approximately 125 µm

Fine CeraBlast™ F grades provide controlled abrasive action for surface finishing and treatment of detailed geometries while minimizing excessive cutting and particle embedment.

CeraBlast™ F Process Characteristics:

Characteristic	CeraBlast™ F
Abrasive action	Mild
Hardness	Mild relative to harder ceramic/alumina grits
Resulting finish	Smoother
Geometry preservation	Designed to minimize aggressive removal from fine geometries
Particle embedment	Low
Metallic contamination	Ceramic, non-ferrous media

CeraBlast™ F Packaging:

1 kg, 5 kg, 10 kg and 20 kg plastic containers

CeraBlast™ F Ordering & Range Identification:

Product Family	CeraBlast™
Product Range	CeraBlast™ F – Zirconium Silicate Ceramic Grit
Grade Designation	F205 / F170 / F120
Overall Size Coverage	Fine grades to approximately 125 µm
Packaging	1 kg, 5 kg, 10 kg and 20 kg plastic containers



Need help selecting a grade? Contact Pan Abrasives for media selection and application trials.