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TECHNICAL DATA SHEET

Product Name: MCD Apatitic Abrasive <300µm (size range)

Catalog Number : MCD120

Specification NO: HM 2004

Purpose: To describe the general properties of MCD < 300 microns apatitic abrasive used for clean grit blast of implants.

Material Appearance: White powder with green tint, irregular particle shape.

Particle Size : >300 microns <5%, < 300 microns >95%

Phase Composition: HA/B-TCP BIPHASIC CALCIUM PHOSPHATE

Hydroxylapatite..... > 65%,

b-TCP, a-TCP and TTCP phases...< 35%

Other Ca-P phases..... < 5%

MicroHardness: Greater than 500 HV REFERENCE VALUE ONLY- NOT NORMALLY MEASURED (100gm load)

Trace Elements: Conform to ASTM F1185-03

SURFACE ROUGHNESS AFTER BLASTED WITH MCD AND CLEANED IN ACCORDANCE WITH HIMED HM 050 CLEANING PROCEDURE:

1.8-2.5 um avg. Ra for CP-Ti

1.2 um Ra minimum

1.5-2.3 um avg. Ra for Ti-64.

1.0 um Ra minimum

Measured by Surtronic 3P

Grit Blast parameters: 20-45 psi air pressure,
Blast nozzle (for reference) 0.1875" dia.
Blast distance 5" +/- 1" with 90 degree angle.