Advanced Material Specialists,Inc.

HA 9918-3

CP-Ti

Product Code: 109918-3
Technical Data Sheet

Revision: # 001
Dated: 9/11/12

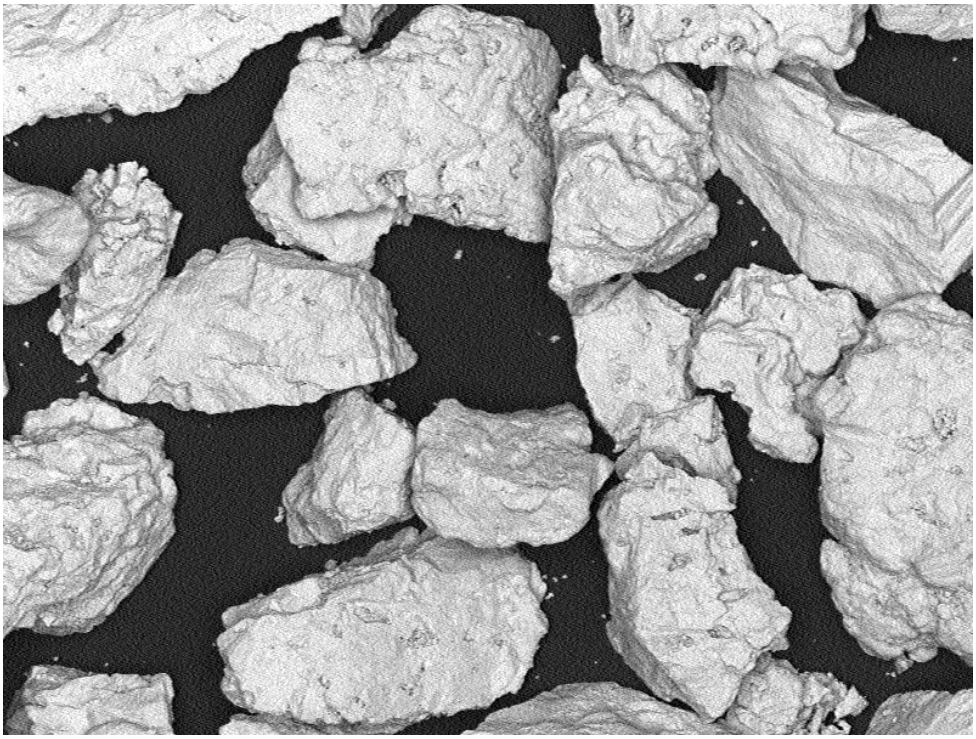

Figure 1: Typical Powder Morphology (SEM 160 X)

1. PHYSICAL PROPERTIES

Formula	**CP-Ti**
Name	**HA 9918-3**
Product Description	**Pure Titanium**
Melting Point [°C]	**1,650 °C**
Apparent Density [g/cm^3] ASTM B212	**1.40 – 2.40**
Hall Flow [sec/50g] ASTM B213	**30.0 – 40.0**

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2. CHEMICAL PROPERTIES

2.1. Typical Chemical Analysis

Element	Weight Percent
Ti	Bal.
O	<0.40
Fe	<0.50
C	<0.08
H	<0.05
N	<0.05
Na	<0.05

3. POWDER MORPHOLOGY AND PARTICLE SIZE DISTRIBUTION

3.1. Powder Morphology

3.1.1. Powder has predominantly irregular shape.

3.1.2. Typical Powder Morphology using SEM is shown in Figure 1.

3.2. Particle Size Distribution

3.2.1. The typical powder size range measured with Tyler according to ASTM B214 is -40 + 50 mesh

3.2.2. Table 1 shows the typical particle size distribution measured with ASTM B 214 Sieve Analysis

Table 1: Typical Microtrac Particle Size Distribution

Mean	Diameter
+425 µm	0.0 - 10.0 %
+300 µm	75.0 - 100.0 %
-300 µm	0.0 - 15.0 %