

1.0 SCOPE

- 1.1 This specification describes the requirements for 5100 Split Carbon Sleeves.
- 1.2 5100 is applicable for use in stuffing boxes which require a spacer.
- 1.3 5100 shall contain no fillers or binders.

2.0 CONTENT

- 2.1 Content, % by weight
 - 2.1.1 Carbon/Graphite – 99% minimum
 - 2.1.2 Ash – 1% maximum
 - 2.1.3 Moisture – 1% maximum

3.0 TYPICAL PHYSICAL, THERMAL, AND CHEMICAL CHARACTERISTICS

3.1 Physical Characteristics

- 3.1.1 5100 shall be machined with the following tolerances in addition to engineered clearances:
 - ID: $+0.005''$, $-0.000''$ ($+0,13\text{mm}$, $-0,00\text{mm}$)
 - OD: $+0.000''$, $-0.005''$ ($+0,00\text{mm}$, $-0,13\text{mm}$)
 - Hgt: $\pm 0.020''$ ($\pm 0,50\text{mm}$)

3.2 Thermal Characteristics

- 3.2.1 Maximum Service Temperature – 5000°F (2760°C) in a non-oxidizing atmosphere
800°F (430°C) in an oxidizing atmosphere
- 3.2.2 Minimum Service Temperature - -400°F (-240°C)

3.3 Chemical Properties

- 3.3.1 Chemical Incompatibilities – avoid oleum, fuming nitric acid, aqua regia, fluorine and hydrochloric acid.

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