

# CHESTERTON® 5300 *PRODUCT DATA SHEET*

## 1.0 SCOPE

- 1.1 This specification describes the requirements for 5300, Inhibited Graphite Tape Packing.
- 1.2 These die formed rings are applicable for use in pumps and valves against steam, water, oil, solvents, acids and alkalies.
- 1.3 5300 die formed rings shall contain an inorganic corrosion inhibitor.

## 2.0 CONTENT AND CONSTRUCTION

- 2.1 Content, % by Weight
  - 2.1.1 Carbon Content - 97.0% minimum
  - 2.1.2 Ash Content - 2.0% maximum
  - 2.1.3 Inorganic Corrosion Inhibitor - .75 to 2.5% maximum
- 2.2 Construction
  - 2.2.1 The graphite tape packing shall be compressed forming a die formed ring.

## 3.0 TYPICAL PHYSICAL, THERMAL, AND CHEMICAL CHARACTERISTICS

- 3.1 Physical Characteristics
  - 3.1.1 Maximum Pressure Rating - 3000 PSI (207 BAR) when used as a sealing ring with One-Cl.
  - 3.1.2 Specific Gravity - 1.40 to 1.50 gm/cc (87.4-93.6 lbs/ft<sup>3</sup>)
    - 3.1.1.1 Maximum Pressure Rating - 4600 PSI (317 BAR) when used as a sealing ring with 5600.
- 3.2 Thermal Characteristics
  - 3.2.1 Maximum Service Temperature - non-oxidizing atmosphere -5000°F (2760°C)  
oxidizing atmosphere - 800°F (430°C)
  - 3.2.2 Minimum Service Temperature - -400°F (-240°C)
- 3.3 Chemical Characteristics
  - 3.3.1 Compatible pH Range - 0 to 14
  - 3.3.2 Chemical Incompatibilities - oleum, fuming nitric acid, aqua regia fluorine, hydrochloric acid, and hydrofluoric acid when used as a positive electrode.

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