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% minimum
   2.1.2 Ash Content – 2% maximum
   2.1.3 Inorganic Corrosion Inhibitor - .75 to 2.5%
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 Style ONE-CI.
   3.1.2 Maximum Pressure Rating – 4600 PSI (317 Bar) when used as a sealing ring with Style 5600 or Style 1600/1601.
   3.1.3 Specific Gravity – 1.4 to 1.5 g/cc (87.4 to 93.6 lb/ft³)
3.2 Thermal Characteristics
   3.2.1 Maximum Service Temperature – 500°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 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.

A.W.CHESTERTON CO.
860 Salem Street
Groveland, MA 01834 USA
Telephone: 781-438-7000
Fax: 978-469-6528
www.chesterton.com

©A.W.Chesterton Company, 2008. All rights reserved.
®Registered trademark owned and licensed by A.W.Chesterton Company in USA and other countries.