

**1.0 SCOPE**

- 1.1 This specification describes the requirements for TWO, a pure graphite packing treated with a special high-temperature lubricant and a break-in lubricant.
- 1.2 TWO is applicable for use in valves and pumps against most solvents, gases and other liquids.

**2.0 CONTENT AND CONSTRUCTION**

- 2.1 Typical Content, % by weight
  - 2.1.1 Graphite Yarn - 65%
  - 2.1.2 High Temperature Lubricant - 15%
  - 2.1.3 Break-in Lubricant - 20%
- 2.2 Construction
  - 2.2.1 All cross sections of packing shall be interbraided.

**3.0 PHYSICAL, THERMAL, AND CHEMICAL CHARACTERISTICS**

- 3.1 Physical Characteristics
  - 3.1.1 Maximum Pressure - 300 PSI (21 BAR)
  - 3.1.2 Maximum Shaft Speed - 4500 FPM (23 MPS)
- 3.2 Thermal Characteristics
  - 3.2.1 Maximum Service Temperature - 5000°F (2760°C) non-oxidizing 800°F (430°C) oxidizing
- 3.3 Chemical Characteristics
  - 3.3.1 Compatible pH Range - 0 to 14
  - 3.3.2 Chemical Incompatibilities - oleum, fuming nitric acid, aqua regia, and fluorine.

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