

EDS

Engineering,
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Standards

METHOD OF POROSITY, OIL CONTENT AND RADIAL CRUSHING STRENGTH CONTENT MEASUREMENT FOR SINTERED ALLOYS

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1. PURPOSE

This standard aims at helping test personnel perform the test in an appropriate method by describing porosity, oil content and radial crushing strength of sintered alloys, oil impregnated.

2. SCOPE

This standard specifies a test method for determination of porosity, oil content and radial crushing strength of sintered alloys, oil impregnated (hereinafter referred to as the "test piece").

3. DEFINITION

3.1. Porosity: Total ratio of open porosity and close porosity existing in the test piece.

3.2. Oil content: Maximum ratio of oil existing in the test piece.

3.3. Radial crushing strength constant: A quotient derived from the product, which is the difference between the outside diameter and thickness of the test piece multiplied by the radial crushing strength, divided by the product obtained from the length of the test piece multiplied by the square of its thickness.

3.4. Radial crushing strength: When the bearing is placed between two parallel plates and undergo compression perpendicular to its longitudinal axis, the load which brings about the first crack shall be defined as the radial crushing strength.

4. TEST PIECE

4.1. For the test piece, the product as it is shall be used. However, in case special regulations are specified, a test piece specified shall be used.

4.2. The test piece for the first approval shall be at test 3, for the routine quality control at least 1.