

ISO 4022:2018 (E)

Permeable sintered metal materials — Determination of fluid permeability

Contents

	Foreword
1	Scope
2	Normative references
3	Terms, definitions, symbols and units
3.1	Terms and definitions
3.2	Symbols and units
4	Principle
5	Test piece
6	Apparatus
6.1	Equipment
6.2	Test fluids
7	Procedure
7.1	Measurement of thickness and area of the test piece
7.1.1	Flat test pieces
7.1.2	Hollow cylindrical test pieces
7.2	Measurement of pressure drop
7.3	Measurement of flow rate
7.4	Measurement of pressures and temperatures
8	Expression of results
8.1	Mean flow rate
8.2	Mean density and viscosity
8.3	Calculation of results
8.4	Final result
9	Test report
Annex A	(informative) The flow of fluid through porous materials
A.1	Viscous flow
A.2	Viscous and inertia flow
A.3	Slip flow
A.4	Wall and end effects
A.5	Long tubes of porous materials
Annex B	(informative) Test fluids