

DIN EN ISO 4022:2018-12 (E)

Permeable sintered metal materials - Determination of fluid permeability (ISO 4022:2018)

| Contents | Page |
|--|------|
| European foreword | 3 |
| Foreword | 4 |
| 1 Scope | 5 |
| 2 Normative references | 5 |
| 3 Terms, definitions, symbols and units | 5 |
| 3.1 Terms and definitions | 5 |
| 3.2 Symbols and units | 7 |
| 4 Principle | 7 |
| 5 Test piece | 7 |
| 6 Apparatus | 7 |
| 6.1 Equipment | 7 |
| 6.2 Test fluids | 11 |
| 7 Procedure | 11 |
| 7.1 Measurement of thickness and area of the test piece | 11 |
| 7.1.1 Flat test pieces | 11 |
| 7.1.2 Hollow cylindrical test pieces | 12 |
| 7.2 Measurement of pressure drop | 12 |
| 7.3 Measurement of flow rate | 12 |
| 7.4 Measurement of pressures and temperatures | 12 |
| 8 Expression of results | 13 |
| 8.1 Mean flow rate | 13 |
| 8.2 Mean density and viscosity | 13 |
| 8.3 Calculation of results | 13 |
| 8.4 Final result | 14 |
| 9 Test report | 14 |
| Annex A (informative) The flow of fluid through porous materials | 15 |
| Annex B (informative) Test fluids | 17 |