

ISO 20032:2013-08 (E)

Method for evaluation of tensile properties of metallic superplastic materials

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	1
3	Symbols, terms and definitions	1
4	Principle	3
5	Test piece	4
6	Apparatus	5
6.1	Testing machine	5
6.2	Clamping device for test pieces	5
6.3	Heating apparatus	5
6.4	Atmosphere	5
6.5	Thermometric apparatus	5
7	Procedure	6
7.1	General	6
7.2	Method for clamping the test piece	6
7.3	Measurement of the test temperature	6
7.4	Application of the force	6
7.5	Method for dimensional measurement of test pieces	6
7.6	Method for determining the superplastic elongation	6
7.7	Determination of strain rate sensitivity exponent (m-value)	7
7.8	Determination of the m-value with the R-type test piece	8
8	Test report	10