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Cryogenic vessels — Toughness requirements for materials at cryogenic temperature —

Part 2: Temperatures between – 80 °C and – 20 °C

*Réipients cryogéniques — Exigences de ténacité pour les matériaux à
température cryogénique —*

Partie 2: Températures comprises entre – 80 °C et – 20 °C



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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

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Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 21028-2 was prepared by Technical Committee ISO/TC 220, *Cryogenic vessels*.

ISO 21028 consists of the following parts, under the general title *Cryogenic vessels — Toughness requirements for materials at cryogenic temperature*:

- *Part 1: Temperatures below – 80 °C*
- *Part 2: Temperatures between – 80 °C and – 20 °C*

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Introduction

The use of materials at low temperatures entails special problems which have to be addressed. Consideration has to be given, in particular, to changes in mechanical characteristics, expansion and contraction phenomena and the thermal conduction of the various materials. The most important property to be considered is the material toughness at low temperature.

This part of ISO 21028 is based on European Standard EN 1252-2:2001.