
**Cryogenic vessels — Toughness
requirements for materials at
cryogenic temperature —**

**Part 2:
Temperatures between -80 degrees C
and -20 degrees C**

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

Partie 2: Températures comprises entre -80 degrés C et -20 degrés C

ISO 21028-2:2018

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ISO copyright office
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Fax: +41 22 749 09 47
Email: copyright@iso.org
Website: www.iso.org

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Foreword

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This document was prepared by Technical Committee ISO/TC 220, *Cryogenic vessels*.

This second edition cancels and replaces the first edition (ISO 21028-2:2004), which has been technically revised.

The main changes compared to the previous edition are as follows:

- tables and figures on impact test temperatures and design reference have been modified;
- [Annex B](#) has been added to present an example of calculation of the lowest temperature authorized during operation.

A list of all parts in the ISO 21028 series can be found on the ISO website.

Introduction

The use of materials at low temperatures entails special problems which should be addressed. Consideration should 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.

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