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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 32260.1-2015

**Destructive tests on welds in metallic materials -- Cold cracking
tests for weldments -- Arc welding processes -- Part 1: General
(English Translation)**

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Foreword

GB/T 32260 Destructive Tests on Welds in Metallic Materials - Cold Cracking Tests for Weldments - Arc Welding Processes is divided into the following three parts.

--- Part 1. General;

--- Part 2. Self-Restraint Tests;

--- Part 3. Externally Load Tests.

This Part is Part 1 of GB/T 32260.

This Part was drafted as per the rules stipulated in GB/T 1.1-2009.

This Part uses redrafting method to modify ISO 17642-1.2004 Destructive Tests on Welds in Metallic Materials - Cold Cracking Tests for Weldments - Arc Welding Processes - Part 1. General.

Compared with ISO 17642-1.2004, this Part has the following technical differences and their causes are as follows.

--- For the normative references, this Part makes adjustment against the technical difference, so that adapt to China's technical conditions. The adjustment is mainly reflected in Chapter 2 "Normative References", which is as follows.

Increase the GB/T 3375 Welding Terminology;

Replace partial international standards and European Standards quoted in ISO 17642-1.2005 by China's corresponding standards.

This Part was proposed by and shall be under the jurisdiction of National Standardization Technical Committee of Welding (SAC/TC 55).

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Destructive Tests on Welds in Metallic Materials -

Cold Cracking Tests for Weldments -

Arc Welding Processes - Part 1. General

1 Scope

This Part in GB/T 32260 specifies the basic terms, definitions, and principles of cold cracking tests.

This Part is applicable to assess the sensitivity of cold cracking on the welding materials, base metals, and welded joints.

2 Normative References

The following documents are essential to the application of this document. For the dated documents, only the versions with the dates indicated are applicable to this document; for the undated documents, only the latest version (including all the amendments) are applicable to this document.

GB/T 3375 Welding Terminology

GB/T 32260.2 Destructive Tests on Welds in Metallic Materials - Cold Cracking Tests for Weldments - Arc Welding Processes - Part 2. Self-Restraint Tests (GB/T 32260.2-2015, ISO 17642-2.2005, MOD)

GB/T 32260.3 Destructive Tests on Welds in Metallic Materials - Cold Cracking Tests for Weldments - Arc Welding Processes - Part 3. Externally Load Tests (GB/T 32260.3-2015, ISO 17642-3.2005, MOD)

3 Terms and Definitions

The following terms and definitions, and those defined in GB/T 3375 are applicable to this document.

3.1 Cold cracks

It indicates the welding cracks generated when the welded joints cooled off to lower temperature (for steel, below Ms temperature). Cold cracks are the local cracking

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