

भारतीय मानक ब्यूरो

DRAFT FOR WIDE CIRCULATION

(Not to be reproduced without permission of BIS or used as an Indian Standard)

भारतीय मानक मसौदा

वेल्डिंग उपभोग्य — परीक्षण के तरीके — भाग 2 : स्टील में सिंगल-रन और टू-रन तकनीक टेस्ट पीस और नमूनों की तैयारी

Draft Indian Standard

WELDING CONSUMABLES — TEST METHODS — PART 2: PREPARATION OF SINGLE-RUN AND TWO-RUN TECHNIQUE TEST PIECES AND SPECIMENS IN STEEL

ICS 25.160.20

Welding General and its Applications
Sectional Committee, MTD 11

Last date of comment:
02/09/2023

NATIONAL FOREWORD

This draft standard is identical to ISO 15792-2 : 2020 ‘Welding consumables — Test methods — Part 2: Preparation of single-run and two-run technique test pieces and specimens in steel’ issued by the International Organization for Standardization (ISO), and subject to its finalization, is to be adopted by the Bureau of Indian Standards on the recommendation of the Welding General and its Applications Sectional Committee and approval of the Metallurgical Engineering Division Council.

The committee decided to adopt ISO 15792-2 : 2020 standard under dual numbering system.

This Indian Standard is published in three parts. The other parts in this series are:

- Part 1 Preparation of all-weld metal test pieces and specimens in steel, nickel and nickel alloys
- Part 3 Classification testing of positional capacity and root penetration of welding consumables in a fillet weld

The text of ISO standard has been approved as suitable for publication as an Indian Standard without deviations. Certain terminologies and conventions are, however, not identical with those used in Indian Standard. Attention is especially drawn to the following:

- a) Wherever the words ‘International Standard’ appear referring to this standard, it should be read as ‘Indian Standard’.
- b) Comma (,) has been used as a decimal marker, while in Indian Standards, the current practice is to use a point (.) as the decimal marker.

In this adopted standard, reference appears to certain International Standards for which Indian Standards also exists. The corresponding Indian Standards which are to be substituted in their place are listed below along with their degree of equivalence for the edition indicated:

<i>International Standard</i>	<i>Corresponding Indian Standard</i>	<i>Degree of Equivalence</i>
ISO 4136 : 2022 Destructive tests on welds in metallic materials — Transverse tensile test	IS 3600 (Part 3) : 2018 / ISO 4136 : 2012 Method of testing fusion welded joints and weld metal in steel Part 3 Destructive tests on welds in metallic materials — Transverse tensile test (Fourth Revision)	Identical
ISO 9016 : 2022 Destructive tests on welds in metallic materials — Impact tests — Test specimen location, notch orientation and examination	IS 3600 (Part 2) : 2022 / ISO 9016 : 2012 Method of testing fusion welded joints and weld metal in steel Part 2 Destructive tests on welds in metallic materials — Impact tests — Test specimen location notch orientation and examination (Third Revision)	Identical
ISO 5178 : 2019 Destructive tests on welds in metallic materials — Longitudinal tensile test on weld metal in fusion welded joints	Doc: MTD/11/21493 Destructive tests on welds in metallic materials — Longitudinal tensile test on weld metal in fusion welded joints (Third Revision)	Identical

For the purpose of deciding whether a particular requirement of this standard is complied with the final value, observed or calculated, expressing the result of a test or analysis, shall be rounded off in accordance with IS 2 : 2022 ‘Rules for rounding off numerical-values (*second revision*)’. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

The scope of the standard is as follows:

SCOPE

This document specifies the preparation of butt weld test pieces and specimens.

The test pieces and specimens are used to determine the strength and impact properties of welded joints when testing welding consumables with single-run and two-run techniques.

This document is applicable to welding consumables for arc welding of steel.

This document is not suitable for electro-slag or electro-gas welding.

The complete document/text of ISO 15792-2 : 2020 ‘Welding consumables — Test methods — Part 2: Preparation of single-run and two-run technique test pieces and specimens in steel’ may be made available, on request to:

संजीव मैनी / Sanjiv Maini

वरिष्ठ निदेशक, वैज्ञानिक 'एफ' एवं प्रमुख / Senior Director, Scientist 'F' & Head

धातुकर्म अभियांत्रिकी विभाग / Metallurgical Engg. Department

भारतीय मानक ब्यूरो / Bureau of Indian Standards,

मानक भवन, नई दिल्ली / Manak Bhavan, 9, B.S.Z. Marg,

New Delhi-110002

E-mail: mtd@bis.gov.in, mtd11@bis.gov.in

Tel: + 91 11 23231085