

International Standard



5183

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

Resistance spot welding electrode adaptors

Corps de pointes d'électrode à embout amovible

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[ISO 5183:1979](https://standards.iteh.ai/catalog/standards/sist/405560b0-633b-4cde-9eea-48f19b167e8/iso-5183-1979)

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ISO 5183-1 et
-2

UDC 621.791.037

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Descriptors : welding, resistance welding, spot welding, welding electrodes, resistance welding electrodes, dimensions, dimensional tolerances, designation, marking.

Price based on 2 pages

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (ISO member bodies). The work of developing International Standards is carried out through ISO technical committees. Every member body interested in a subject for which a technical committee has been set up 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.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council.

International Standard ISO 5183 was developed by Technical Committee ISO/TC 44, *Welding*, and was circulated to the member bodies in February 1978.

It has been approved by the member bodies of the following countries :

Belgium	India	Romania
Bulgaria	Ireland	South Africa, Rep. of
Canada	Italy	Spain
Czechoslovakia	Japan	Sweden
Denmark	Mexico	Turkey
Egypt, Arab Rep. of	Netherlands	United Kingdom
Finland	New Zealand	USSR
France	Norway	
Germany, F. R.	Poland	

No member body expressed disapproval of the document.

Resistance spot welding electrode adaptors

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1 Scope and field of application

This International Standard lays down the dimensions and tolerances of resistance spot welding electrode adaptors where a male taper is used to fix an electrode cap to the adaptor.

2 References

ISO 1089, *Electrode taper fits for spot welding equipment — Dimensions.*¹⁾

ISO 5182, *Materials for resistance welding electrodes and ancillary equipment.*

ISO 5821, *Resistance spot welding electrode caps.*²⁾

3 Dimensions

See the drawing and table on page 2.

4 Designation

Example of designation of a spot welding electrode adaptor with $d_1 = 16$ mm and a length $l_1 = 58$ mm :

Spot welding electrode adaptor

ISO 5183-16 × 58

5 Material

The material shall conform to code A 2/1 of ISO 5182.

6 Marking

Electrode adaptors complying with this International Standard shall be marked with the designation laid down in clause 4 but excluding words and the reference number of this International Standard; for example :

16 × 58

1) Revision of ISO/R 1089. At present at the stage of draft.

2) At present at the stage of draft.

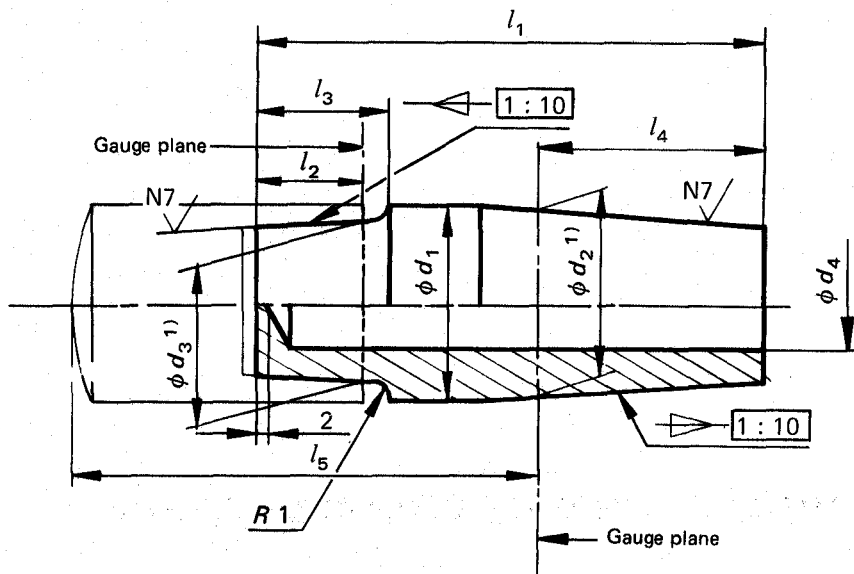


Table – Dimensions

Values in millimetres

d_1 h11	d_2	d_3	d_4	l_2 $\pm 0,5$	l_3	l_4 $\pm 0,5$	for $l_5 =$										
							31,5	40	50	63	80	100	125	(140)	160	(180)	200
13	12,7	10	6,5	6,5	10	16	34,5	42,5	52,5	65,5	82,5	102,5	127,5	—	—	—	—
16	15,5	12	8,0	8	13	20	—	48	58	71	88	108	133	148	168	—	—
20	19	15	10,5	10	15	25	—	—	63	76	93	113	138	153	173	193	213

1) d_2 and d_3 are the cone diameters at the gauge planes.