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Metal chrome — Specification and conditions of delivery

Chrome métallique — Spécifications et conditions de livraison



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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.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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Metal chrome — Specification and conditions of delivery

1 Scope

This International Standard specifies requirements and conditions of delivery for metal chrome usually supplied for alloying special steels and alloys.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 565:1990, *Test sieves — Metal wire cloth, perforated metal plate and electroformed sheet — Nominal sizes of openings.*

ISO 3713:1987, *Ferroalloys — Sampling and preparation of samples — General rules.*

ISO 8954-1:1990, *Ferroalloys — Vocabulary — Part 1: Materials.*

3 Definitions

For the purposes of this International Standard, the following definition and those in ISO 8954-1 apply.

3.1 metal chrome: An alloying material with a minimum chrome content of 98 % by mass obtained by reduction or an electrolytic method.

4 Information for ordering

Orders for metal chrome shall include the following information:

- quantity;
- constitution of consignment;
- chemical composition, in accordance with the designations given in table 1;

Table 1 — Chemical composition

Designation ¹⁾	Chemical composition, % (m/m)																
	Cr	Si	Al	Fe	C	S	P	Cu	As	Bi	Sb	Zn	Pb	Sn	N	O ₂	H ₂
	min.	max.	max.	max.	max.	max.	max.	max.	max.	max.	max.	max.	max.	max.	max.	max.	max.
RECr99,6	99,6	0,04	0,01	0,35	0,05	0,010	0,005	0,005	—	—	—	—	0,001	—	0,02	0,05	0,001
ECr99,2	99,2	0,01	0,005	0,20	0,02	0,030	0,005	0,005	0,005	0,003	0,005	0,005	0,003	0,001	0,03	0,55	0,10
RACr99	99,0	0,1	0,3	0,3	0,01	0,01	0,01	0,005	0,005	0,000 5	0,002	0,005	0,005	0,004	0,01	—	—
ACr98,5	98,5	0,3	0,5	0,5	0,03	0,02	0,02	0,01	0,01	0,001	0,008	0,01	0,001	0,006	0,05	—	—
ACr98	98,0	0,5	0,7	0,8	0,05	0,04	0,03	0,04	—	—	—	—	—	—	—	—	—
NOTE — Metal chrome of ECr grade may be supplied in degassed form with the gas content not more than: 0,02 N, 0,05 O ₂ and 0,001 H ₂ .																	
1) E: electrolytic A: aluminothermic R: refined																	