

REFERENCE MATERIAL IR 1653

Unalloyed steel

LABORATORY MEANS – Mass content in %

Element	C	Si	Mn	P	Cr	Ni	Cu	Sn
M_M	0.312	0.400	0.962	0.0338	0.358	0.218	0.453	0.066
s_M	0.009	0.015	0.021	0.0025	0.013	0.006	0.015	0.004

Element	S	Mo	Al	As	Co	Ti
M_M	0.039	0.038	0.005	0.039	0.028	≤ 0.003

Additional information (in %):

Pb : 0.015 – W : 0.011 – V < 0.005 – Zr < 0.001

M_M : Mean of the intralaboratory means

s_M : Standard deviation of the intralaboratory means

The laboratory mean values have been examined statistically to eliminate outlying values.
Values given *in italic* are for information only.

The material is available in the form of a 35mm dia. x 30mm disc.

This Reference Material was prepared by:

INSTITUT DE RECHERCHES DE LA SIDÉRURGIE (IRSID)

Certificate revised August 2016 (previous issue May 2000)

ArcelorMittal Maizières Research SA (formerly "IRSID")
Voie Romaine, BP 30320, F-57283 Maizières-lès-Metz Cedex

✉ E-mail: reference.materials@arcelormittal.com

Website: referencematerials.arcelormittal.com