

REFERENCE MATERIAL IR 1644

Unalloyed steel

LABORATORY MEANS – Mass content in %

Element	C	Si	Mn	P	S	Cr	Ni	Cu
M_M	0.394	0.287	0.594	0.021	0.031	0.138	0.158	0.265
s_M	0.008	0.010	0.013	0.002	0.002	0.008	0.008	0.006

Element	Al
M_M	0.017

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 33mm dia. x 30mm disc.

This Reference Material was prepared by:

INSTITUT DE RECHERCHES DE LA SIDÉRURGIE (IRSID)

Certificate revised August 2016 (previous issue March 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