

Metal and Quality, LLC
Reference Material
C043a
Low Alloy Steel



INFORMATION

Reference Material C043a is intended for calibration of measuring instruments at determination of chemical composition of low alloy steels using Optical Emission or XRF Spectrometry

DEVELOPER AND MANUFACTURER

Metal and Quality, Limited Liability Company

METROLOGICAL CHARACTERISTICS, mass fraction in %

C043a	C	Mn	Si	P	S	Cr	Ni	Cu	W	V	Mo	Ti	Al	Nb	Sn	B	As	Ca	N
	0.222	2.14	0.131	0.060	0.064	0.49	2.93	0.51	0.092	0.25	0.146	0.041	0.066	0.006	0.0023	0.001	0.001	0.0004	0.009
SD	0.005	0.03	0.005	0.002	0.001	0.01	0.03	0.01	0.003	0.01	0.003	0.004	0.003	0.001	0.0002	-	-	0.0001	-

SD - standard deviation of laboratories mean values. *Italics - indicative content*

SPECIFICATION

Reference material C043a is made of forged metal of vacuum induction melting in the form of cylinders with diameter of 40 mm and 25 mm thick according to the technology identical to the certified reference material C043 (DSZU 083.33-2013).

The metrological characteristics of C043a were obtained on the basis of multiple comparative measurements with the C043 optical emission and X-ray fluorescence method in three laboratories:

Dneprospetsstal (DSS) PJSC, Ukraine

Zaporizhia Steel Works (ZSZ) Ltd., Ukraine

Institute for Ferrous Metallurgy (IMZ), Poland

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DELIVERY

RM packed into box and Certificate

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