

Metal and Quality, LLC
Reference Material
C043b
Low Alloy Steel



INFORMATION

Reference Material C043b is intended for calibration of measuring instruments at determination of chemical composition of low alloy steels using Optical Emission Spectrometry

DEVELOPER AND MANUFACTURER

Metal and Quality, Limited Liability Company

METROLOGICAL CHARACTERISTICS, mass fraction in %

C043b	C	Mn	Si	P	S	Cr	Ni	Cu	W	V	Mo	Ti	Al	Nb	Sn	B	As	Ca	N
	0.219	2.13	0.128	0.058	0.061	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	0.003	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 DSZU C043b was produced from a forged bar originating from the same vacuum induction melt as DSZU C043a. The samples were prepared as disks (Ø40 mm x 25 mm) using a production process identical to that used for the certified reference material DSZU C043.

TRACEABILITY

The metrological characteristics of DSZU C043b were determined through multiple comparative measurements against CRM DSZU C043 and RM DSZU C043a. The analysis was performed via optical emission spectrometry (OES) across three independent laboratories (Ukraine):

Dneprospetsstal (DSS) PJSC

Zaporizhia Steel Works Ltd.

Metal and Quality LLC

DATE OF ISSUE

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DELIVERY

RM packed into box and Certificate

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