

Metal and Quality LLC
CERTIFICATE OF ANALYSIS
RM CX015
Carbon Steel



APPLICABILITY Reference material CX015 is intended for calibration of analytical instruments at definition of chemical compound of carbon steels

MEAN VALUES OF LABORATORIES (mass fraction in %)

No.	C	Mn	Si	S	P
1	0.6670	1.091	0.247	0.0237	0.0154
2	0.6680	1.098	0.248	0.0248	0.0155
3	0.6700	1.102	0.249	0.0249	0.0158
4	0.6780	1.105	0.249	0.0254	0.0160
5	0.6810	1.108	0.249	0.0260	0.0171
6	0.6816	1.125	0.255	0.0264	0.0195
7					0.0205
M(M)	0.6743	1.1048	0.250	0.0252	0.0171
s(M)	0.0067	0.0115	0.003	0.0010	0.0021

M(M) - Mean of intralaboratory means; s(M) - Standard deviation of the mean values of laboratories

CERTIFIED VALUES

	C	Mn	Si	S	P
Certified M(M)	0,674	1,10	0,250	0,0252	0,017
Uncertainty (95%)	0,007	0,01	0,003	0,0010	0,002

Uncertainty estimated as the half-width confidence interval of Student's t-distribution, when n is the number of laboratory means: $C(95\%) = t \cdot s(M) / \sqrt{n}$

Approximate values of the mass fraction of elements, %

Cr	Ni	Cu	Ti	Mo	V
0.03	0.01	0.01	0.002	0.003	0.01

VALIDITY December 2033

SPECIFICATION Reference material is made in the form of non-oxidized chips with a fraction of 0.315 - 1.5 mm from a steel sheet of carbon steel grade 65G – DSTU 8429 (1066 - ASTM, 66Mn4 - DIN, 080A67 – BS, 65Mn - GB)

DELIVERY RM in glass (150 g), packed into a box and Certificate

SAFETY A Safety Data Sheet (SDS) is not required for RM CX15. Material CX015 and packing does not contain hazardous chemical, explosives and radioactive substances and substances which might influence health and the environment

PARTICIPATING LABORATORIES (Ukraine)

Dneprometiz PJSC
Dniprostetsstal (DSS) PJSC
Dniprovsky Metallurgical Plant JSC
Kremenchuk Steelworks JSC
Zaporizhstal PJSC

CONTACTS

37 Nezalezhnoi Ukrain Street, Zaporozhye city 69019, Ukraine
Tel/fax: +380 61 7171800
rm@rm.co.ua <https://rm.co.ua>