

## Maryland Metrics Technical Data Chart

### Basic chemical composition of (GOST Russian Steel Standards) steel

Grade of Steel	Content of Elements, %								
	C	Mn	Si	Cr	Ni	Cu	Al	S max	P max
<b>Carbon Steel of Common Quality, GOST 380</b>									
ST1KP	0.06-0.12	0.25-0.50	≤0.05	≤0.30	≤0.30	≤0.30	---	0.050	0.040
ST1PS	0.06-0.12	0.25-0.50	0.05-0.15	≤0.30	≤0.30	≤0.30	---	0.050	0.040
ST1SP	0.06-0.12	0.25-0.50	0.15-0.30	≤0.30	≤0.30	≤0.30	---	0.050	0.040
ST2KP	0.09-0.15	0.25-0.70	≤0.05	≤0.30	≤0.30	≤0.30	---	0.050	0.040
ST2PS	0.09-0.15	0.25-0.70	0.05-0.15	≤0.30	≤0.30	≤0.30	---	0.050	0.040
ST2SP	0.09-0.15	0.25-0.70	0.15-0.30	≤0.30	≤0.30	≤0.30	---	0.050	0.040
ST3KP	0.14-0.22	0.30-0.80	≤0.05	≤0.30	≤0.30	≤0.30	---	0.050	0.040
ST3PS	0.14-0.22	0.40-0.85	0.05-0.15	≤0.30	≤0.30	≤0.30	---	0.050	0.040
ST3SP	0.12-0.22	0.40-0.85	0.15-0.30	≤0.30	≤0.30	≤0.30	---	0.050	0.040
<b>Carbon Steel of Common Quality, GOST 380</b>									
ST3GPS	0.14-0.22	0.80-1.10	≤0.15	≤0.30	≤0.30	≤0.30	---	0.050	0.040
ST3GSP	0.14-0.20	0.80-1.10	0.15-0.30	≤0.30	≤0.30	≤0.30	---	0.050	0.040
ST4SP	0.18-0.27	0.40-0.70	0.15-0.30	≤0.30	≤0.30	≤0.30	---	0.050	0.040
ST5PS	0.28-0.37	0.50-1.00	0.05-0.15	≤0.30	≤0.30	≤0.30	---	0.050	0.040
ST5SP	0.28-0.37	0.50-1.00	0.15-0.30	≤0.30	≤0.30	≤0.30	---	0.050	0.040
<b>Structural High grade Carbon steel GOST 1050</b>									
08KP	0.05-0.12	0.25-0.50	≤0.03	≤0.10	≤0.30	≤0.30	---	0.040	0.035
08PS	0.05-0.11	0.35-0.65	0.05-0.17	≤0.10	≤0.30	≤0.30	---	0.040	0.035
08	0.05-0.12	0.35-0.65	0.17-0.37	≤0.10	≤0.30	≤0.30	---	0.040	0.035
10KP	0.07-0.14	0.25-0.50	≤0.07	≤0.15	≤0.30	≤0.30	---	0.040	0.035
10PS	0.07-0.14	0.35-0.65	0.05-0.17	≤0.15	≤0.30	≤0.30	---	0.040	0.035
10	0.07-0.14	0.35-0.65	0.17-0.37	≤0.15	≤0.30	≤0.30	---	0.040	0.035
15KP	0.12-0.19	0.25-0.50	≤0.07	≤0.25	≤0.30	≤0.30	---	0.040	0.035
15PS	0.12-0.19	0.35-0.65	0.05-0.17	≤0.25	≤0.30	≤0.30	---	0.040	0.035
15	0.12-0.19	0.35-0.65	0.17-0.37	≤0.25	≤0.30	≤0.30	---	0.040	0.035
20KP	0.17-0.24	0.25-0.50	≤0.07	≤0.25	≤0.30	≤0.30	---	0.040	0.035
20PS	0.17-0.24	0.35-0.65	0.05-0.17	≤0.25	≤0.30	≤0.30	---	0.040	0.035
20	0.17-0.24	0.35-0.65	0.17-0.37	≤0.25	≤0.30	≤0.30	---	0.040	0.035
25	0.22-0.30	0.50-0.80	0.17-0.37	≤0.25	≤0.30	≤0.30	---	0.040	0.035
30	0.27-0.35	0.50-0.80	0.17-0.37	≤0.25	≤0.30	≤0.30	---	0.040	0.035
40	0.37-0.45	0.50-0.80	0.17-0.37	≤0.25	≤0.30	≤0.30	---	0.040	0.035
45	0.42-0.50	0.50-0.80	0.17-0.37	≤0.25	≤0.30	≤0.30	---	0.040	0.035
<b>Low Carbon High Grade Steel for Cold Stamping GOST 9045</b>									
08uu	≤0.07	0.20-0.35	≤0.01	≤0.03	≤0.06	≤0.06	0.02-0.07	0.025	0.020
08kp	≤0.10	0.20-0.40	≤0.03	≤0.10	≤0.10	≤0.15	---	0.030	0.025
08Pps	≤0.09	0.20-0.45	≤0.04	≤0.10	≤0.10	≤0.15	---	0.030	0.025
<b>Structural High Grade Steel for Cold Stamping</b>									
08ua	≤0.10	0.20-0.40	≤0.03	≤0.10	≤0.15	≤0.20	0.02-0.08	0.025	0.020
<b>Low alloyed Steel GOST 4041</b>									
09G2S	≤0.12	1.3-1.7	0.5-0.8	≤0.30	≤0.30	≤0.30	≤0.05	0.040	0.035
09G2S	≤0.12	1.4-1.8	0.17-0.37	≤0.30	≤0.30	≤0.30	---	0.040	0.035
09G2L	≤0.12	1.4-1.8	0.17-0.37	≤0.30	≤0.30	0.15-0.30	---	0.040	0.035
12GS	0.09-0.15	0.8-1.2	0.5-0.8	≤0.30	≤0.30	≤0.30	---	0.040	0.035
16GS	0.12-0.18	0.9-1.2	0.4-0.7	≤0.30	≤0.30	≤0.30	---	0.040	0.035

17GS	0.14-0.20	1.0-1.4	0.4-0.6	<=0.30	<=0.30	<=0.30	---	0.040	0.035
17GIS	0.15-0.20	1.15-1.6	0.4-0.6	<=0.30	<=0.30	<=0.30	---	0.040	0.035
14G2	0.12-0.18	1.2-1.6	0.17-0.37	<=0.30	<=0.30	<=0.30	---	0.040	0.035
10G2S1	<=0.12	1.3-1.65	0.8-1.1	<=0.30	<=0.30	<=0.30	---	0.040	0.035
10G2S1D	<=0.12	1.3-1.65	0.8-1.1	<=0.30	<=0.30	0.15-0.30	---	0.040	0.035
10HSN1D	<=0.12	0.5-0.8	0.8-1.1	<=0.30	<=0.30	0.4-0.6	---	0.040	0.035
A	<=0.21	0.6-1.0	0.15-0.35	<=0.30	<=0.30	<=0.30	---	0.035	0.035
V	<=0.21	0.6-1.1	0.15-0.35	<=0.30	<=0.30	<=0.30	<=0.06	0.035	0.035
D	<=0.18	0.6-1.4	0.15-0.50	<=0.30	<=0.40	<=0.30	0.015-0.06	0.035	0.035
A32	<=0.18	0.9-1.6	0.15-0.50	<=0.20	<=0.40	<=0.35	0.015-0.06	0.035	0.035
D32	<=0.18	0.9-1.6	0.15-0.50	<=0.20	<=0.40	<=0.35	0.015-0.06	0.035	0.035
A36	<=0.18	0.9-1.6	0.15-0.50	<=0.20	<=0.40	<=0.35	<=0.06	0.035	0.035
D36	<=0.18	0.9-1.6	0.15-0.50	<=0.20	<=0.40	<=0.35	0.015-0.06	0.035	0.035



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