

101.2 - Low Alloy Steels (chip form)

PLEASE NOTE: The tables are presented to facilitate comparisons among a family of materials to help customers select the best SRM for their needs. For specific values and uncertainties, the certificate is the only official source.

Description >>	30f Cr-V Steel (SAE 6150)	33e Nickel Steel	72g Low Alloy Steel (AISI 4130)	100b Manganese Steel	125b LA Steel, High Silicon	129c LA Steel, High Sulfur (SAE 112)	131h Refined Cast Iron	139b Chromium-Nickel-Molybdenum Steel	155 Chromium-Tungsten Steel	163 Chromium Steel	179 LA Steel, High Silicon	291 Cr-Mo Steel (ASTM A-213) (chip form)	293 Cr-Ni-Mo (AISI 8620)	2171 LA Steel, (HSLA 100)
Unit Size >>	150 g	150 g	150 g	150 g	100 g	150 g	100 g	150 g	150 g	100 g	150 g	150 g	150 g	150 g

Elemental Composition (mass fraction in %)

Al (total)		0.030	(0.041)		0.329						0.0028	0.0041	0.039	0.019
Carbon	0.490	0.186	0.278	0.397	0.0261	0.125	0.00078	0.403	0.905	0.933	0.027	0.1769	0.222	0.066
Chromium	0.945	0.068	0.905	0.063	0.0198	0.014		0.488	0.485	0.982	0.022	1.338	0.510	0.550
Copper	0.074	0.070	0.011	0.064	0.0707	0.013		0.097	0.083	0.087	0.056	0.0474	0.032	1.47
Manganese	0.79	0.525	0.492	1.89	0.2751	0.769		0.778	1.24	0.897	0.094	0.551	0.960	0.73
Molybdenum		0.224	0.170	0.237	0.0087	0.002		0.182	0.039	0.029	0.014	0.538	0.204	0.546
Nickel	0.070	3.36	0.016	0.030	0.0375	0.251		0.510	0.100	0.081	0.050	0.0654	0.480	3.35
Niobium														0.024
Nitrogen	0.010		(0.008)	0.004				0.007		0.007				
Phosphorus	0.011	0.005	0.009	0.023	0.0276	0.076		0.013	0.015	0.007	0.006	0.0086	0.018	0.006
Silicon	0.283	0.262	0.223	0.210	2.889	0.020		0.242	0.322	0.488	3.19	0.2321	0.300	0.338
Sulfur					0.0095	0.245	0.00074					0.0198		
Tin					0.0034						0.004			
Tungsten									0.517					
Vanadium			0.003	0.003		0.012		0.004	0.014		<0.01	(0.004)	0.004	0.003

- Certified values are normal font
- Non-certified or reference values are italicized
- Non-certified values in parentheses are for information only