

Typical Performance for different types of alloys

Alloy FP



X-MET7000

Cobalt alloys

Element	Cr	Ni	Mo	Nb	W	Co	Fe	Mn
Range	19.2 - 30.5	0.2 - 35.2	0.009 - 9.6	0.009 - 2.5	0.11 - 15.4	33.5 - 68.5	0.3 - 3.1	0.11 - 1.9
Error, wt.%	0,59	0,17	0,15	0,05	0,35	0,82	0,18	0,14

Copper alloys

Element	Cu	Ni	Zn	Pb	Sn	Mn	Fe
Range	58.7 - 100	0.036 - 29.6	0.054 - 39.3	0.045 - 9.2	0.072 - 9.7	0.021 - 2.9	0.033 - 4.0
Error, wt.%	1,31	0,11	0,19	0,14	0,19	0,04	0,16

Error %: Typical difference between measured value and certified reference value when large set of test samples are measured using 15s measuring time with multiple production instruments. Notice that performance of individual instrument may differ slightly.

Range: Concentration range of the measured test samples (Same as the calibration range).

Low alloy steels

Element	V	Cr	Mn	Fe	Ni	Cu	Mo
Range	0.027 - 0.15	0.030 - 8.8	0.066 - 0.9	89.4 - 100	0.048 - 1.7	0.024 - 0.22	0.009 - 0.94
Error, wt.%	0,02	0,08	0,12	0,52	0,11	0,05	0,03

Nickel alloys

Element	Ti	Cr	Mn	Fe	Co	Ni	Cu	Nb	Mo	W
Range	0.063 - 2.9	0.030 - 29.9	0.084 - 1.5	0.027 - 47.8	0.045 - 12.9	30.7 - 99.5	0.084 - 32.3	0.012 - 5.2	0.009 - 26.6	0.072 - 14.2
Error, wt.%	0,08	0,22	0,07	0,34	0,09	0,92	0,16	0,04	0,15	0,10

Stainless steels

Element	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Nb	Mo	W
Range	0.063 - 2.0	0.033 - 0.28	11.4 - 24.0	0.14 - 9.3	30.6 - 86.2	0.17 - 18.0	0.1 - 36.1	0.015 - 3.7	0.006 - 0.65	0.009 - 6.2	0.054 - 3.5
Error, wt.%	0,08	0,04	0,32	0,12	1,01	0,11	0,28	0,12	0,02	0,04	0,07

Tool steels

Element	Cr	Ni	Mo	W	Co	V	Mn	Fe
Range	0.1 - 12.5	0.051 - 1.3	0.09 - 4.8	0.048 - 18.2	0.16 - 5.1	0.030 - 1.8	0.2 - 2.0	69.4 - 96.1
Error, wt.%	0,14	0,08	0,04	0,19	0,06	0,06	0,15	1,6



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