

## CTS Fasteners & Metals Report No. 84

### Summary of Chemical Analysis Results

Chemical Analysis of Corrosion Resistant Steel  
 Material: AISI 302 Steel  
 Sample ID: M73

Element	Grand Mean	B-L Std Dev	Two Std Dev Range	Three Std Dev Range
Carbon	0.0672	0.0038	0.0596 - 0.0748	0.0558 - 0.0786
Manganese	1.499	0.023	1.453 - 1.545	1.430 - 1.568
Phosphorus	0.0410	0.0030	0.0350 - 0.0470	0.0320 - 0.0500
Cobalt	0.0597	0.0057	0.0483 - 0.0711	0.0426 - 0.0768
Silicon	0.6203	0.0180	0.5843 - 0.6563	0.5663 - 0.6743
Copper	0.5206	0.0158	0.4890 - 0.5522	0.4732 - 0.5680
Nickel	8.062	0.066	7.930 - 8.194	7.864 - 8.260
Chromium	17.911	0.122	17.667 - 18.155	17.545 - 18.277
Molybdenum	0.1198	0.0103	0.0992 - 0.1404	0.0889 - 0.1507
Nitrogen	0.0480	0.0014	0.0452 - 0.0508	0.0438 - 0.0522

Material: AISI 304 Steel  
 Sample ID: M74

Element	Grand Mean	B-L Std Dev	Two Std Dev Range	Three Std Dev Range
Carbon	0.0510	0.0026	0.0458 - 0.0562	0.0432 - 0.0588
Manganese	1.819	0.037	1.745 - 1.893	1.708 - 1.930
Phosphorus	0.0290	0.0017	0.0256 - 0.0324	0.0239 - 0.0341
Cobalt	0.1200	0.0056	0.1088 - 0.1312	0.1032 - 0.1368
Silicon	0.2880	0.0124	0.2632 - 0.3128	0.2508 - 0.3252
Copper	0.3630	0.0092	0.3446 - 0.3814	0.3354 - 0.3906
Nickel	8.298	0.076	8.146 - 8.450	8.070 - 8.526
Chromium	18.260	0.129	18.002 - 18.518	17.873 - 18.647
Molybdenum	0.2960	0.0130	0.2700 - 0.3220	0.2570 - 0.3350
Nitrogen	0.0784	0.0026	0.0732 - 0.0836	0.0706 - 0.0862

Grand Means and Between-Lab Standard Deviations have been rounded to three or four decimal places.  
 Statistics for samples M73 and M74 are based on the results of at least 53 labs except for Nitrogen.