

National Bureau of Standards

Certificate of Analysis

Standard Reference Material 293

Cr-Ni-Mo Steel (AISI 8620)

Element	Certified Value ^{a/}	Range of Reported Results ^{b/}		
		P-e-r-c-e-n-t	b-y	W-e-i-g-h-t
Carbon	0.222		0.22	to 0.223
Manganese	.96 ₀		.954	to .961
Phosphorus	.018		.018	to .019
Sulfur	.022		.022	to .024
Silicon	.30 ₀		.294	to .302
Copper	.032		.030	to .033
Nickel	.48 ₀		.47	to .486
Chromium	.51 ₀		.505	to .517
Vanadium	.004		.004	to .005
Molybdenum	.20 ₄		.201	to .21
Aluminum (total)	.039		.038	to .041

a/ The value listed for an element is the present best estimate of the "true" value based on the results of the cooperative analytical program. The value is not expected to deviate from the "true" value by more than ± 1 in the last significant figure reported. For a subscript figure, the deviation is not expected to be more than ± 5 .

b/ Maximum variability from a minimum of four independent results (means).

The material for this SRM was provided by the Bethlehem Steel Corporation, Bethlehem, Pa.

Cooperative analyses for certification were performed in the analytical laboratories of the Bethlehem Steel Corporation, Homer Research Laboratory by F. H. Ruch, Sparrows Point by F. G. Fick, and Steelton Plant by A. J. Oyler; and the Armco Steel Corporation, Research Center by M. Dannis and R. L. LeRoy.

Analyses for certification were performed in the NBS Analytical Chemistry Division by S. A. Wicks.

The overall direction and coordination of the technical measurements leading to certification by NBS were performed by J. I. Shultz.

The technical and support aspects involved in the preparation, certification, and issuance of this SRM were coordinated through the Office of Standard Reference Materials by R. E. Michaelis.

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J. Paul Cali, Chief
Office of Standard Reference Materials