

## Material Test Report

### Flowtrend 316L Manways

This manway meets the properties of ANSI 316L. The actual elemental composition shown in the table is from the Mill Test Report provided by the manufacturer and only applies to the product contact areas.

Heat #	Type	Size (mm)	Material	%	C	Mn	P	S	Si	Cr	Ni	Mo	Hardness (RB)	Yield Strength (MPa)	Tensile Strength (MPa)	Elongation (%)	Raw Material Specification
				Min %	-	-	-	-	16.0	10.0	2.00						
				Max %	0.03	2.0	0.045	0.03	0.75	18.0	14.0	3.00					
S643135	Coil	50 X 50 X 2.94	316L	Actual	0.02	1.37	0.026	0.030	0.45	16.70	10.06	2.08	84.00	275	604	56	ASTM A240/A240M-2018:316L
S671449	Coil	50 X 50 X 2.94	316L	Actual	0.014	1.09	0.025	0.002	0.62	16.56	10.06	2.04	76.50	271	634	54	GB 24511-2009 S31603
S643529	Coil	50 X 50 X 4.00	316L	Actual	0.020	1.39	0.026	0.030	0.46	16.48	10.09	2.08	82.00	278	601	54	ASTM A240/A240M-2018:316L
235312	Coil	50 X 50 X 12.00	316L	Actual	0.013	1.38	0.024	0.002	0.59	16.08	10.22	2.04	83.00	280	580	67	GB 24511-2009 S31603

All items that are supplied by Flowtrend, an ISO 9001 certified company, are also quality inspected per FT-QA-001, *Product Receiving Inspection and Acceptance Procedure* prior to release to ensure that products meet the product specifications and acceptable quality standards, including material type.

*Barry Plante*

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