

## Industeel CLC 18.15.4L 3% Mo Minimum Austenitic Stainless Steel

Category : Metal , Ferrous Metal , Austenitic , Stainless Steel , T S30000 Series Stainless Steel

### Material Notes:

Description: CLC 18-15-4L (317L) is an austenitic stainless steel with a 3% minimum Molybdenum addition. Alloys CLC 18-15-4L (317L) exhibit austenitic microstructure free of deleterious carbide precipitations in grain boundaries. The grade contains some residual ferrite (=2%) after solution annealing (1100 - 1150Å°C/ 2012 - 2102Å°F) and water quenching. Its low carbon content avoids the intergranular corrosion, even on welded pieces without an ulterior water quenching. The high Molybdenum content gives this steel a higher resistance to corrosion in sulfuric media than standard grades (CLC17-12-2L / 316L). Its main properties are : high ductility, easy weldability and improved corrosion resistance. The main application are chemical tankers, chemical industries and pulp and paper industry. Information provided by manufacturer.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Industeel-CLC-18154L-3-Mo-Minimum-Austenitic-Stainless-Steel.php](http://www.lookpolymers.com/polymer_Industeel-CLC-18154L-3-Mo-Minimum-Austenitic-Stainless-Steel.php)

Physical Properties	Metric	English	Comments
Density	8.00 g/cc	0.289 lb/inÅ³	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	>= 515 MPa	>= 74700 psi	
Tensile Strength, Yield	>= 210 MPa	>= 30500 psi	
	@Strain 0.200 %	@Strain 0.200 %	
	>= 250 MPa	>= 36300 psi	
	@Strain 1.00 %	@Strain 1.00 %	
Elongation at Break	>= 40 %	>= 40 %	
Modulus of Elasticity	200 GPa	29000 ksi	
	@Temperature 20.0 - 100 Å°C	@Temperature 68.0 - 212 Å°F	
Poissons Ratio	0.299	0.299	Calculated
Shear Modulus	77.0 GPa	11200 ksi	
	@Temperature 20.0 - 100 Å°C	@Temperature 68.0 - 212 Å°F	

Thermal Properties	Metric	English	Comments
CTE, linear	16.0 Åµm/m-Å°C	8.89 Åµin/in-Å°F	
	@Temperature 20.0 - 100 Å°C	@Temperature 68.0 - 212 Å°F	
	16.5 Åµm/m-Å°C	9.17 Åµin/in-Å°F	

Thermal Properties	Metric	English	Comments
	@ Temperature 20.0 - 200 Â°C	@ Temperature 68.0 - 392 Â°F	
	17.0 Âµm/m-Â°C	9.44 Âµin/in-Â°F	
	@ Temperature 20.0 - 300 Â°C	@ Temperature 68.0 - 572 Â°F	
	18.0 Âµm/m-Â°C	10.0 Âµin/in-Â°F	
	@ Temperature 20.0 - 500 Â°C	@ Temperature 68.0 - 932 Â°F	
Specific Heat Capacity	0.500 J/g-Â°C	0.120 BTU/lb-Â°F	
	@ Temperature 20.0 - 100 Â°C	@ Temperature 68.0 - 212 Â°F	
Thermal Conductivity	14.0 W/m-K	97.2 BTU-in/hr-ftÂ²-Â°F	
	@ Temperature 20.0 - 100 Â°C	@ Temperature 68.0 - 212 Â°F	

Component Elements Properties	Metric	English	Comments
Carbon, C	<= 0.030 %	<= 0.030 %	
Chromium, Cr	18.5 %	18.5 %	
Iron, Fe	64.77 - 64.8 %	64.77 - 64.8 %	As remainder
Molybdenum, Mo	3.2 %	3.2 %	
Nickel, Ni	13.5 %	13.5 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.0000750 ohm-cm	0.0000750 ohm-cm	
	@ Temperature 20.0 - 100 Â°C	@ Temperature 68.0 - 212 Â°F	

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