



An enhanced version of 304L/4307 engineered for improved machinability.

It enables higher productivity through increased machining speeds, extended tool life, improved dimensional accuracy, superior surface finish, and higher yield compared with standard 304L/4307.

+13% Cutting Speed
on **304L**
Vs Top Competitors

+159% Longer
TOOL LIFE
Compared To Lowest European Test Result

Improvements in machinability are often associated with reduced corrosion resistance. **Prodec® grades maintain corrosion performance within the range expected for comparable stainless steels.**

Prodec® 304L/4307 is an austenitic stainless steel for general service, offering resistance to atmospheric corrosion and many organic and inorganic chemicals. It is suitable for contact with foods and beverages and is

used in vacuum processing equipment and specialised instrumentation requiring consistent performance.

Prodec® 303/4305 provides corrosion resistance in mildly corrosive environments. Due to sulphide inclusions introduced for machinability, components should be chemically treated after machining to remove sulphides from the final surface and achieve optimum corrosion performance.

Chemical composition

Material	EN	ASTM		PRE	Typical chemical composition, % by mass					
		TYPE	UNS		C	Cr	Ni	Mo	N	Others
PRODEC® 304L/4307	1.4307	304L	S30403	18	0.02	18	8	–	–	–

Pitting Resistance Equivalent is calculated using the following formula: $PRE = \%Cr + 3.3 \times \%Mo + 16 \times \%N$
Surface finish and other factors determine the actual corrosion resistance of a particular product. Composition is given as % by mass.

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Mechanical properties

Metric					
Material	Product Form	Min. yield strength $R_{p0.2}$ (MPa)	Tensile strength R_m (MPa)	Elongation A_5 (%)	Hardness (HBW) max.
PRODEC® 304L / 4307	Hot Rolled Bar	175	500/700	45/35	215
PRODEC® 304L / 4307	Cold Drawn Bar	400/380/175	600-930/600-930/500-830	25/25/30	-

Minimum values for Hot rolled bars and Cold drawn bars according to EN 10088-3.5) HB max

Physical properties

Metric						
Material	Density (kg/dm ³)	Modulus of elasticity at 20 °C (GPa)	Coefficient of thermal expansion 20–100 °C (10 ⁻⁶ /K)	Thermal conductivity at 20 °C (W/(m*K))	Thermal capacity at 20 °C (J/(kg*K))	Electrical resistivity at 20 °C (Ω*mm ² /m)
PRODEC® 304L / 4307	7.9	200	16.0	15	500	0.73

Imperial						
Material	Density (lbm/in ³)	Modulus of elasticity (psi)	Coefficient of thermal expansion 68-212v°C(μin/(in* °F))	Thermal conductivity (Btu/(hr*ft* °F))	Thermal capacity (Btu/(lbm* °F))	Electrical resistivity at (μΩ*in)
PRODEC® 304L / 4307	0.285	29 * 10 ⁶	8.89	8.7	0.119	28.74

Values according to EN 10088-1.



Offshore
STAINLESS & ALLOYS

MADE IN THE UK

Supporting UK Manufacturing

All PRODEC Stainless Steel supplied by Offshore Stainless is manufactured in the UK



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