

## Stainless Steel

## S34700 (347) Sheet

Datasheet Updated  
05 August 2021

### SPECIFICATIONS

Commercial	347
US	S34700

A stabilized stainless steel similar to type 304 with an addition of columbium and tantalum.

### CHEMICAL COMPOSITION

#### ASTM A240 S34700 Sheet

Element	% Present
Carbon (C)	0.00 - 0.08
Chromium (Cr)	17.00 - 19.00
Nickel (Ni)	9.00 - 13.00
Manganese (Mn)	0.00 - 2.00
Phosphorous (P)	0.00 - 0.04
Sulphur (S)	0.00 - 0.03
Silicon (Si)	0.00 - 0.75
Niobium (Columbium) (Nb)	0.00 - 1.00
Iron (Fe)	Balance

### ALLOY DESIGNATIONS

- Grade 347 stainless steel
- S34700
- EN 1.4550

### SUPPLIED FORMS

- Sheet

### APPLICATIONS

- Header bars in heat exchangers
- Aircraft exhaust parts
- Expansion joints
- Fasteners

### CHARACTERISTICS

- Resistance to corrosion
- Prevention of product contamination
- Resistance to oxidation
- Ease of fabrication
- Excellent formability
- Beauty of appearance
- Ease of cleaning
- High strength with low weight
- Good strength and toughness at cryogenic temperatures
- Ready availability of a wide range of product forms

### MECHANICAL PROPERTIES

#### ASTM A240 Sheet

Property	Value
Proof Stress	205 Min MPa
Tensile Strength	515 Min MPa
Elongation A50 mm	40 Min %

## DISCLAIMER

This Data is indicative only and as such is not to be relied upon in place of the full specification. In particular, mechanical property requirements vary widely with temper, product and product dimensions. All information is based on our present knowledge and is given in good faith. No liability will be accepted by the Company in respect of any action taken by any third party in reliance thereon. Please note that the 'Datasheet Update' date shown above is no guarantee of accuracy or whether the datasheet is up to date.

The information provided in this datasheet has been drawn from various recognised sources, including EN Standards, recognised industry references (printed & online) and manufacturers' data. No guarantee is given that the information is from the latest issue of those sources or about the accuracy of those sources. Material supplied by the Company may vary significantly from this data but will conform to all relevant and applicable standards. As the products detailed may be used for a wide variety of purposes and as the Company has no control over their use; the Company specifically excludes all conditions or warranties expressed or implied by statute or otherwise as to dimensions, properties and/or fitness for any particular purpose, whether expressed or implied. Advice given by the Company to any third party is given for that party's assistance only and without liability on the part of the Company. All transactions are subject to the Company's current Conditions of Sale. The extent of the Company's liabilities to any customer is clearly set out in those Conditions; a copy of which is available on request.