

## Bearing Steels

## AMS 5898 (Cronidur 30) Bar

Datasheet Updated  
05 August 2021

### SPECIFICATIONS

Commercial	Cronidur 30
Aerospace	AMS 5898

A longer wearing martensitic stainless steel with greater corrosion resistance than 440C.

### CHEMICAL COMPOSITION

#### AMS 5898

Element	% Present
Carbon (C)	0.25 - 0.35
Chromium (Cr)	14.00 - 16.00
Manganese (Mn)	0.00 - 1.00
Silicon (Si)	0.00 - 1.00
Nickel (Ni)	0.00 - 0.50
Molybdenum (Mo)	0.85 - 1.10
Nitrogen (N)	0.30 - 0.50

### SUPPLIED FORMS

- Bar

### APPLICATIONS

- Industry applications: Aerospace and aeronautics, medical, automotive, racing and mechanical engineering, pharmaceutical and food industries.
- High precision bearings
- Ball screws
- Spindles
- Pumps
- Valves
- Industrial knives

### CHARACTERISTICS

- Superior corrosion resistance, higher than 1.2083, 1.4112, 1.4301, 1.4571
- Excellent machinability
- High dimensional stability after heat treatment
- Excellent grinding and polishing ability to obtain optimal surface quality
- High durability by maximum hardness under static and dynamic demands
- Good wear resistance, higher than 1.4034, 1.2363 or 1.4528
- Tougher and secondary hardening alternative to all corrosion resistant PM-steels
- High temper resistance up to 500 °C

### MECHANICAL PROPERTIES

#### AMS 5659

Property	Value
Tensile Strength	2150 MPa
Hardness Rockwell C	58 HRC
Elongation A50 mm	3 %

## 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.