



## Stainless Steel Alloy 430F

### Quick Facts

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This ferritic Stainless Steel can not be strengthened by heat treatment. The ferritic Alloy are ferromagnetic. It presents a very good machinability and for cutting. Corrosion resistance is inferior to that of the 300 series of austenitic Stainless Steel.

### Typical Applications

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- valves
- injectors
- fasteners

### Stock Range

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We stock a comprehensive range of round bars, sizes between 20mm and 200mm in diameter  
Flat Bars with a thickness between 15mm – 60mm and a width up to 250mm.

We are offering as well:

General forgings

Rings

Blocks

Primarily manufactured in: Europe, US

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## Industry Specifications

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- AISI 430 430F, X14CrMoS17, 1.4104
- BS 970
- DIN EN 17440-85

Material may also be supplied against Customer specifications, subject to enquiry.

## Melting Practices

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- N.A.

## Chemical Analysis

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### Chemical Composition, %

	C	Mn	P	S	Si	Cr	Ni	Mo	-	-	-	-	-	-	Fe
Min	-	-	-	0.15	-	-	-	-	-	-	-	-	-	-	Bal.
Max	0.12	1.25	0.06	-	1.00	-	-	0.6 *	-	-	-	-	-	-	Bal.

\* Mo content can be optional



## Mechanical Properties

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	<i>Tensile Strength (MPA)</i>	<i>Yield Strength (0.2% offset), (MPA) min.</i>	<i>Elongation %</i>	<i>Reductio n of Area</i>	<i>Hardness,</i>	<i>Charpy Impacts</i>
Min.	450	320	25	-	149	-
Max.	550	450	-	-	177	-

## Machinability

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Machinability is very good! Excellent chip breakage. Due to the high sulphur content, this grade can not recommended for welding.

## Material Conditions

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This Alloy will withstand moderate cold forming.



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**Data Sheet**

## Corrosion Resistance

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moderate corrosion resistance