

## ASTM A638 Grade 660B 660D 660A Alloy A286

**ASTM A638 Grade 660 Alloy A286 stockholders and suppliers, delivering to the whole of the U.K.** West Yorkshire Steel are suppliers of grade A286 round bar, diameters. A precipitation hardening stainless type steel suitable for applications at high temperature. This grade is suitable for applications requiring good corrosion resistance and high strength in temperatures up to 700°C. It can be used at higher temperatures for lower stress applications.

### Related Specifications

UNS S66286 A286 660A 660B 660C 660D ASTM A453 A638 SA453 1.4980 1.2779

### Form of Supply

West Yorkshire Steel are suppliers and stockholders of round bar in diameters. ASTM A638 Grade 660B, alloy A286 ground steel bar can be supplied, providing a high quality precision ground bar to your required tolerances.

- Diameter

### Applications

660B, alloy A286 is a popular specification in the oil & gas industry and is widely used in aircrafts and industrial gas turbines. Typical applications include afterburner parts, fasteners, sockets, screws, jet engine blades, turbine wheels and exhaust parts.

### Analysis

Carbon	0.08% max	Chromium	13.00-16.00%
Manganese	2.00% max	Nickel	24.00-27.00%
Silicon	1.0% max	Molybdenum	1.00-1.50%
Phosphorous	0.040% max	Titanium	1.90-2.35%
Sulphur	0.030% max	Vanadium	0.10-0.50%
Aluminium	0.35% max	Boron	0.01 max
		Copper	0.30 max

## Corrosion Resistance

660B, A286 has good corrosion resistance characteristics in service up to 700°C.

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## Welding

We recommend you contact your welding consumables supplier who should provide you full assistance and information on welding 660B, A286 stainless steel type.

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## Typical Mechanical Properties\*

Supply Condition	0.2% Proof Stress N/mm <sup>2</sup>	Tensile Strength N/mm <sup>2</sup>	Elongation % min	Hardness Brinell HB	ROA % min
Solution Annealed Precipitation	720	1000	15	250-355	25

\*rolled bar - longitudinal

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## Typical Physical Properties

<b>Density</b>	7.90 Kg/dm
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## Heat Treatment

As an austenitic precipitation hardening steel heat treatment temperatures, including rate of heating, cooling and soaking times will vary due to factors such as the shape and size of each steel component. Other considerations during the heat treatment process include the type of furnace, quenching medium and work piece transfer facilities. Please consult your heat treatment provider for full guidance on heat treatment of 660b, A286.

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## Certification

ASTM A638 grade 660B, A286 is available with BS EN 10204 3.1 mill certificate, please request when placing any orders.

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## Quality Assured Supply

660B, A286 is supplied in accordance with our ISO 9001:2015 registration.