ASTM A350 LS2 / A105

round bar

ASTM A350 LF2 / A105 steel stockholders and suppliers, delivering throughout the UK.

This carbon steel grade is available as full bar lengths or cut pieces in round bar. It is commonly supplied in the as rolled or normalised condition. A350 LF2 has medium strength and impact characteristics and is a readily weldable grade of steel. Machinability is similar to other low carbon steels such as 070M20, S275 and S355. This grade is used in a wide range of industries where components require service at low temperature.

- Diameter

Contact our experienced sales team who will assist you with your A350 LF2 enquiry.

Alternative carbon steel grades we supply

EN3 | EN8 | EN9 | EN32 | EN43 | 070M20| 080M40 | 070M55 | 080A15 | S275 | S355 | Key Steel |

Form of Supply

West Yorkshire Steel are steel stockholders and suppliers of ASTM A350 LF2 / A105 carbon steel in round bar. Diameters and flat bar can be sawn cut to your exact requirements. Ground steel bar can be supplied, providing a precision ground steel bar to tight tolerances.

Applications

A350 LF2 is used in a wide range of industries such as the petrochemicals, oil and gas sectors. This grade is commonly used in the manufacture of flanges and fittings.

Analysis

Carbon	0.50-0.60%	Silicon	0.05-0.35%
Manganese	0.50-0.80%	Sulphur	0.06% max
Phosphorous	0.06% max	Chromium	0.30% max
Nickel	0.40% max	Molybdenum	0.12% max
Vanadium	0.08% max	Niobium	0.02% max
Copper	0.40% max		

Forging

Preheat the component carefully, then raise the temperature to 900 to 1200°C for forging. To avoid scaling soak time should be kept to a minimum. After forging cool slowly, preferably in a furnace.

Normalising

Heat the steel slowly to 860-930°C, soak well. Air cool.

Hardening

Heat slowly to 890-960°C and allow it to be heated through. Quench in water.

Tempering

Temper the A350 LF2 steel component immediately after quenching whilst still hand warm. Re-heat to the tempering temperature then soak for one hour per 25 millimetre of total thickness (2 hours minimum) Cool in air. For most applications tempering of A350 LF2 will be at about 590°C.

Welding

We recommend you contact your welding consumables supplier who should provide you full assistance and information on welding A350 LF2 steel.

Heat Treatment

Heat treatment temperatures, including rate of heating, cooling and soaking times will vary due to factors such as the shape and size of each A350 LF2 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 A350 LF2 carbon steel.

Certification

ASTM A350 LF2 / A105 carbon steel is available with a BS EN 10204 3.1 mill certificate, please request when placing any orders.

Quality Assured Supply

ASTM A350 LF2 / A105 is supplied in accordance with our ISO 9001:2015 registration.

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