

BS2789 Grade 420-12 SG Iron

BS2789 Grade 420-12 SG iron stockholders and suppliers, delivering to the whole of the UK. West Yorkshire Steel are suppliers of this spheroidal graphite iron (SG Iron) specification as continuously cast bar. As an S G Iron it is available in diameters and a limited range of flat sections. Occasionally referenced as a ductile iron grade BS2789 Grade 420-12 is a spheroidal graphite iron that possesses strength, impact and ductile characteristics of a different type to grey cast iron grades, though with similar machining characteristics.

We welcome export enquiries for sg iron bar. Contact our sales office and consult our [shipping policy](#) for further details.

Related Specifications

BS EN 1563 EN16482 EN GJS 420-12 60-40-10 65-45-12
FGS420-12 SF400 SFP400 DIN 1693 ISO 185 250

Alternative Cast Iron Grades

[Spheroidal Graphite Iron](#) | [400-15](#) | [500-7](#) | [600-3](#) | [700-2](#) | [Cast Iron](#) | [200](#) | [220](#) | [250](#) | [260](#) | [300](#) | [350](#) |

Form of Supply

Supplied as round bar and a limited size range in flat bar. BS2789 Grade 420-12 round and flat is available in 3 metre bar lengths and or cut as sawn blanks to your requirements.

- Diameter

Applications

BS2789 Grade 420-12 is suitable for applications where the optimal impact, fatigue, electrical conductivity and magnetic permeability features of a spheroidal graphite iron (SG iron) is required. Typical applications include valves, dies, pistons and moulds.

Analysis

Carbon	3.40-3.85%	Phosphorous	0.10% max
Manganese	0.10-0.30%	Sulphur	0.02% max
Silicon	2.30-3.10%	Magnesium	0.07% max
		Iron	balance

Typical Properties

Typical Tensile Strength N/mm ²	Typical Elongation %	Typical Hardness HB
420	12	120-180

Mechanical properties shown are typical and may vary subject to the size and section of this sg iron grade.

Certification

BS2789 420-12 S G Iron is available with a certificate of conformity, please request when placing any orders.

Quality Assured Supply

BS2789 EN1563 SG Iron grade 420-12 is supplied in accordance with our ISO 9001:2015 registration.