

GJ-HRC-Q355B

Hot Rolled Steel Coil

Grade: Q355B

GB/T 1591-2018 | GB/T 709-2019 | EN 10025-2 S355JR equivalent

HOT ROLLED COIL (HRC) - HIGH STRENGTH

PRODUCT DESCRIPTION

Hot rolled steel coil Q355B is a low alloy high strength structural steel with micro-alloying elements (Nb/V/Ti). It offers significantly higher yield strength than Q235B while maintaining good weldability and toughness at -20 degrees C. The grade is widely used in heavy structures, bridges, and engineering machinery where weight reduction and load-bearing capacity are critical.



KEY FEATURES

- > High yield strength 355MPa with good ductility
- > Excellent low temperature impact toughness at -20C
- > Micro-alloyed with Nb/V/Ti for grain refinement
- > Good weldability with low carbon equivalent
- > Suitable for heavy gauge and high load applications

TYPICAL APPLICATIONS

- > Bridges and heavy structural engineering
- > Offshore platforms and port machinery
- > Construction machinery and mining equipment
- > Pressure vessels and boiler components
- > Wind turbine towers and transmission towers

CHEMICAL COMPOSITION (wt %)

C	Si	Mn	P	S	Nb+V+Ti
<=0.24	<=0.55	<=1.60	<=0.040	<=0.040	<=0.12

MECHANICAL PROPERTIES

Thickness (mm)	Yield >=MPa	Tensile MPa	Elong >=%	Impact -20C >=J
<=16	355	470-630	22	27
>16-40	345	470-630	21	27
>40-63	335	470-630	20	27

DIMENSIONS & SPECIFICATIONS

Parameter	Range
Thickness	1.5 - 13.99 mm
Width	600 - 1500 mm
Coil ID	508 / 610 mm
Coil Weight	15 - 30 tons
Surface	Mill scale (black)
Edge Condition	Mill edge / Slit edge
Tolerance	GB/T 709 Class A

PACKAGING & SHIPPING

Standard export packing: steel strapping, waterproof paper, anti-rust oil optional. Container loading: 20-25 tons per 20ft GP, 25-28 tons per 40ft HC.