

GJ-HRC-Q235B

Hot Rolled Steel Coil

Grade: Q235B

GB/T 3274-2017 | GB/T 709-2019 | ASTM A36 equivalent

HOT ROLLED COIL (HRC)

PRODUCT DESCRIPTION

Hot rolled steel coil Q235B is a general-purpose carbon structural steel produced by hot rolling at temperatures above the recrystallization point. The coil features a dark oxide (mill scale) surface, excellent formability and weldability, and consistent mechanical properties across the full width and length. It is the most widely used structural steel grade in construction, machinery manufacturing and pipe production.



KEY FEATURES

- > Excellent weldability and cold forming performance
- > Uniform mechanical properties with low inclusion content
- > Mill scale surface, suitable for pickling and further processing
- > Available in wide thickness range from 1.5mm to 13.99mm
- > Coil inner diameter: 508mm / 610mm, coil weight 15-30 tons

TYPICAL APPLICATIONS

- > Structural steel fabrication and building construction
- > Welded pipe and tube manufacturing
- > Machinery parts and automotive components
- > Pressure vessels and storage tanks (non-critical)
- > Base material for cold rolling and galvanizing lines

CHEMICAL COMPOSITION (wt %)

C	Si	Mn	P	S	Cu
<=0.20	<=0.35	<=1.40	<=0.045	<=0.045	<=0.30

MECHANICAL PROPERTIES

Thickness (mm)	Yield >=MPa	Tensile MPa	Elongation >=%
<=16	235	370-500	26
>16-40	225	370-500	25
>40-60	215	370-500	24

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.