

Cold rolled steel - DC01, DC03, DC04, DC05, DC06

Specification Model

Deliverable Grade								
Standard	Q/BQB 408	JIS G3141	JFS A2001	EN 10130	DIN 1623	ASTM A1008	GB/T 5213	ISO 3574
Grade	BLC	SPCC	JSC270C	DC01	St12	CS		CR1
	BLD	SPCD	JSC270D	DC03	RRSt13	DS		CR2
	BUSD	SPCE	JSC270E	DC04	St14	DDS	SC1	CR3
	BUFD	SPCF	JSC270F	DC05		EDDS	SC2	CR4
	BSUFD		JSC260G	DC06			SC3	CR5

Product Parameters

Standard	Grade	Chemical Composition of Cold Rolled Mild Steel(%)					Mechanical properties of cold rolled steel		
		C	Si	Mn	P	S	Yielding Strength (MPa)	Tensile Strength (MPa)	Elongation (%)
JIS G3141	SPCC	0.15 max	-	0.60 max	0.10 max	0.05 max			
	SPCD	0.12 max	-	0.50 max	0.04 max	0.04 max	≤ 240	≥ 270	≥ 41
	SPCE	0.10 max	-	0.45 max	0.03 max	0.03 max	≤ 220	≥ 270	≥ 43
	SPCF	0.08 max	-	0.45 max	0.03 max	0.03 max	≤ 210	≥ 270	≥ 45
JIS G3141 Surface quality classification: B-finish; D-mirror finish									
Heat treatment or state: A - annealed; S - tempered , 8 -1/8 hard, 4-1/4 hard, 2-1/2 hard, 1-hard									
EN 10130	DC01	0.12 max	-	0.60 max	0.045 max	0.045 max	140-280	270-410	≥ 28
	DC03	0.10 max	-	0.45 max	0.035 max	0.035 max	140-240	270-370	≥ 34
	DC04	0.08 max	-	0.40 max	0.030 max	0.030 max	140-210	270-350	≥ 38
	DC05	0.06 max	-	0.35 max	0.025 max	0.025 max	140-180	270-330	≥ 40
	DC06	0.02 max	-	0.25 max	0.020 max	0.020 max	120-170	270-330	≥ 41

Surface type: A, B; Surface specification: b=special smooth, g=smooth, m=non-glossy, r=rude
Example of plate naming: EN 10130+A1-DC03-B-g where B is the surface type and g indicates that the surface specification is smooth

Packaging & Shipping

NO.	Packing Name	Main Material	Usage
1	Bare Packing	1.Iron angle bead 2.Binding Belt	Area around Tianjin;short distant with cartage; use for cold rolling coil
2	Simple Packing	1.Iron angle bead 2.Antirust paper 3.Binding Belt	Area around Tianjin;short distant with cartage; use for cold rolling coil
3	Standard Packing	1.Antirust paper 2.Antirust film 3.Paper angle bead 4.Inside plastic protective plate 5.Outside packing boarding 6.Iron angle bead 7.Binding belt	Cold Rolling coil southern of china ocean shipping; basic plate for coating; home appliance; automotive sheet
4	Superior Packing	1.Antirust paper 2.Antirust film 3.Paper angle bead 4.Paper washer 5.Paper angle bead 6.Galvanize packing boarding 7.Galvanize packing boarding 8.Iron angle bead 9.Binding belt	Cold Rolling coil; southern of china ocean shipping; basic plate for coating; home appliance; automotive sheet

Advantages of cold rolled steel:

- (1) Higher precision, cold rolled strip thickness difference of no more than 0.01~0.03mm.
- (2) Thinner dimensions, cold rolled thinnest can be rolled 0.001mm steel strip; hot rolled can now be as thin as 0.78mm.
- (3) Superior surface quality, cold rolled steel plate can even produce a mirror surface; while the surface of the hot rolled plate has iron oxide,pockmarks and other defects.
- (4) Cold rolled plate can be adjusted according to user requirements of its mechanical performance such as tensile strength and process performance such as stamping performance.

Uses of cold rolled steel:

- (1)Furniture and appliance manufacturing: Cold rolled mild steel coils and plates are commonly used to manufacture steel furniture, housings and parts for refrigerators, washing machines and other household appliances. Their high strength, corrosion resistance, ease of processing and

surface finish make them ideal materials for manufacturing these products.

(2) Automotive Manufacturing: Cold rolled steel coil is also a widely used material in the automotive industry for body, chassis and engine applications. It has the characteristics of high strength, light weight, corrosion resistance, good stamping, etc., which can meet the requirements of the automotive industry for materials.

(3) Building materials manufacturing: cold rolled steel coils can also be used to manufacture building materials, such as steel structures, steel frames, steel plate facades and so on. Its high strength, good seismic performance, easy processing, corrosion resistance and other characteristics can meet the requirements of building materials.

In addition, cold rolled mild steel plate is also widely used in printing iron drums, construction, building materials, bicycles and other industries. Overall, due to its excellent performance, cold rolled mild steel coils and plates are widely used in many fields.