

Cold Rolled Steel

Cold rolled steel is mainly used to manufacture high value-added products in automotive, home appliance, beverage packaging, electronic, electrical motor and building etc.

Low carbon steel

	Mechanical properties							
	YS Rp ₀₂ MPa	TS R _m MPa min	EI % min				Γ ₉₀ min	n ₉₀ min
			L ₀ =80mm b=20mm thickness mm					
			<0,70	0,70~<1,0	1,0~<1,6	> 1,6		
DC01	130-260	270	28	30	32	34		
DC03	120-240	270	32	34	35	36		
DC04	120-210	270	36	38	39	40	1.5	0.18
DC05	110-190	260	38	39	40	41	1.8	0.20
DC06	100-180	250	39	40	41	42	2.0	0.22
DC07	100-150	250	40-42	44	44	44	2.5	0.23
	Chemical Analysis (%)							
	C max	Mn max	P max	S max	Al min	Ti max		
DC01	0.10	0.50	0.035	0.025	0.020	–		
DC03	0.08	0.45	0.030	0.025	0.020	–		
DC04	0.08	0.40	0.025	0.020	0.020	–		
DC05	0.008	0.30	0.020	0.020	0.015	0.20		
DC06	0.006	0.30	0.020	0.020	0.015	0.20		
DC07	0.006	0.25	0.020	0.020	0.015	–		

Low carbon steel for enamelling

Baosteel's cold rolled steel for enamelling is used in:

- domestic appliances
- sanitary ware: for bathtubs, shower trays, sinks
- architecture: interior and exterior panels, signage
- industry.

	Mechanical properties			Chemical Analysis (%)					
	YS Rp ₀₂ MPa max	TS R _m MPa	EI A ₉₀ min%	C	Mn	P max	S max	Al min	Ti max
DC01EK	270	270/390	30	0.08 %max					
DC04EK	220	270/350	36	0.08 %max					
DC06EK	190	270/350	38	0.02 %max					
DC04ED	210	270/350	38						
	<1.0 mm								
BTC1	190	270/320	39	<0.008	0.10-0.30	0.020	0.050	0.07	0.20
	≥1.0 mm								
BTC1	190	270/320	40	<0.008	0.10-0.30	0.020	0.050	0.07	0.20

High yield strength steel

	Mechanical properties		
	YS R _{p0.2} MPa	TS R _m MPa	EL % min 80mm
Interstitial Free			
HC180Y	180-230	340-400	36
HC220Y	220-270	350-420	34
Rephosphorised			
HC180P	180-230	280-360	34
HC220P	220-270	320-400	32
Low Alloy			
HC340LA	340-420	410-510	21
HC380LA	380-480	440-560	19
HC420LA	420-520	470-590	17
HC500LA	500-600	560	14

	Chemical Analysis (%)						
	C max	Si max	Mn max	P max	S max	Al min	Nb max
Interstitial Free							
HC180Y	0.01	0.3	0.7	0.06	0.025	0.01	0.12
HC220Y	0.01	0.3	0.9	0.08	0.025	0.01	0.12
Rephosphorised							
HC180P	0.05	0.4	0.6	0.08	0.025	0.015	
HC220P	0.07	0.5	0.7	0.08	0.025	0.015	
Low Alloy							
HC340LA	0.10	0.5	1.1	0.025	0.025	0.015	0.09
HC380LA	0.10	0.5	1.6	0.025	0.025	0.015	0.09
HC420LA	0.10	0.5	1.6	0.025	0.025	0.015	0.09
HC500LA	0.12	0.6	1.7	0.025	0.025	0.015	0.09

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