

STEEL PLATES FROM HOT ROLLED COILS

Grade: C45

Steel for Quenching and Tempering / Hardening Steel

Grade	C45
Norm	EN10083-2
W. Nr.	1.0503
Rolling state	AR – as rolled
Description	Steel for quenching and tempering. Used for components subjected to high stresses where the combination of high strength, wear resistance and toughness is particularly important.
Applications	Forgings, wheel tyres, shafts, axes, knives, pistons, link plates, springs.

Standard coils' stock range

	1000	1250	1500
2	•	•	
2,5		•	•
3	•	•	•
4	•	•	•
5	•	•	•
6	•	•	•
8	•	•	•
10	•	•	
12		•	

Dimensions other than the ones listed here can be sourced on agreement.

At times, some of the dimensions listed here might be unavailable: please make sure to get in touch with our sales department for a real-time update about the actual stock availability.

Chemical composition According to EN10083

Element	Al	B	C	Ceq	Cr	Cu	Mo	Mn	N
Min.			0,42					0,50	
Max			0,50		0,40		0,10	0,80	

Element	Ni	Nb	P	S	Si	Sn	Ti	V	Zr
Min.									
Max	0,40		0,045	0,045	0,40				

(Cr+ Mo + Ni = 0,63)

Mechanical properties For quenching and tempering: refer to EN EN10083-3 for all mechanical properties

Tolerances **Dimensional Tolerances**
UNI EN 10051

Surface Status
UNI EN 10163-2

Equivalences

W. Nr.	AISI	Japan JIS
1.0503	1046	S45C

Certifications

- EN10204-3.1
- CE / Declaration of Performance

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