

Quality

25CrMo4

According to Standard

EN 10083 - 3 : 2006

Number

1.7218



Comparable Standards

German
DINFrance
AFNORSpain
UNEChina
GBU.K.
B.S.Russia
GOSTUSA
AISI - SAE

25CrMo4

25CD4

F222

30CrMo

22ChM . 25XM

4130

Chemical Analysis

C%
maxSi%
maxMn%
maxP%
max

S%

max

Cr%
maxMo%
max

0.22 - 0.29

0.40

0.60 - 0.90

0.025

0.020 - 0.040

0.90 - 1.20

0.15 - 0.30

Hot Work and Heat Treatment Temperatures**Temperature °C**

Hot - Forming	Normalizing	Quenching	Tempering	Soft Annealing	Natural State	Stress-relieving +SR
1050 - 850	890 air	880 oil or polymer	540 - 680	680 - 720 cooling 15°C/h to 600, then air	(HB - 270)	50° under the temperature of tempering
		840 water	air			

Mechanical Properties at Room Temperature

Mechanical properties for the ruling section (see EN 10083-1:2006, Annex A) with a diameter Steel designation (d) or for flat products thickness (t)

d ≤ 16mm t ≤ 8mm					16mm < d ≤ 40mm 8mm < t ≤ 20mm					40mm < d ≤ 100mm 20mm < t ≤ 60mm			
Re	Rm	A	Z	KV ^b	Re	Rm	A	Z	KV ^b	Re	Rm	A	
Min.		min	min	min.	Min.		min	min	min.	Min.		min	
700	900 to 1100	12	50	-	600	800 to 950	14	55	50	450		700 to 850	15
40mm < d ≤ 100mm 20mm < t ≤ 60mm			100mm < d ≤ 160mm 60mm < t ≤ 100mm						160mm < d ≤ 250mm 100mm < t ≤ 160mm				
Z	KV ^b	Re	Rm	A	Z	KV ^b	Re	Rm	A	Z	KV ^b		
min	min.	Min.		min	min	min.	Min.		min	min	min.		
60	50	400		16	60	45							