

Quality	20NiCrMo2-2
According to Standard	EN 10084 : 1998
Number	1.6523



#### Comparable Standards

EN	W.N.	B.S.	Finland	Afnor	Italy/ Spain
20NiCrMo2-2	1.6523	805M20	506	20NCD2	20NiCrMo2

#### Chemical Analysis

C %	Si % max	Mn %	P% max	S%	Cr %
0.17 to 0.23	0.4	0.65 to 0.95	0.035	≤ 0.035	0.35 to 0.70
Mo %	Ni %	B			
0.15 to 0.25	0.40 to 0.70	—			

#### Hot Work and Heat Treatment Temperatures

End quench test	Carburizing temperature <sup>3)</sup>	Core-hardening temperature <sup>4), 5)</sup>	Case-hardening temperature <sup>4), 5)</sup>	Tempering <sup>6)</sup>
Ouenching <sup>2)</sup> °C	°C	°C	°C	°C
920	880 to 980	860 to 900	780 to 820	150 to 200

#### Mechanical Properties at Room Temperature

Mechanical Properties for the ruling section with a diameter )d) or for flat products thickness (f) of

R <sup>e</sup> min. MPa <sup>c</sup>	R <sup>m</sup>	A min. %	Z min. %	KV <sup>b</sup> min. J
-	-	-	-	-

Hardness Requirements for Products Delivered in the Conditions 'treated to improve shearability' (+S), 'annealed to maximum hardness requirements' (+A), 'treated to hardness range' (+TH), or 'treated to ferrite - pearlite structure and hardness range' (+FP)

Brinell Hardness in the Condition						
+S	+A	+TH		+FP		
max.	max.	min.	max.	min.	max.	
<sup>1)</sup>	212	161	212	149	194	