

Quality	826M40
According to Standard	PD 970:2005
Number	-



Comparable Standards	W.N.	AISI	DIN
	1.6745	-	40NiMoCr10-5

Chemical Analysis	C %	Mn %	Si %	Cr %	Ni %	Mo %
	0.36 to 0.44	0.45 to 0.70	-	0.50 to 0.80	2.30 to 2.80	0.45 to 0.65
	P%	S%				
	-	-				

### Hot Work and Heat Treatment Temperatures

Preheat Treatment °C	Austenitizing °C	Hardening °C	Tempering °C
No Hardenability data specified		820 to 850	660 max.

### Mechanical Properties at Room Temperature

Condition	Ø mm.	Rp0,2 min. N/mm2	Rm N/mm2	A min. %	KV min. J	Max Hardness HB
Hardened and tempered + turned or ground	U > 150 ≤ 250	725	925 to 1075	12	28	269 to 331
	U > 100 ≤ 150	740	925 to 1075	12	42	269 to 331
	V > 63 ≤ 250	820	1000 to 1150	12	28	293 to 352
	V > 63 ≤ 150	835	1000 to 1150	12	42	293 to 352
	W > 29 ≤ 250 <sup>d</sup>	910	1075 to 1225	11	22	311 to 375
	W > 29 ≤ 150 <sup>d</sup>	925	1075 to 1225	11	35	311 to 375
	X > 29 ≤ 150 <sup>d</sup>	1005	1150 to 1300	10	28	341 to 401
	Y > 29 ≤ 150 <sup>d</sup>	1080	1225 to 1375	10	28	363 to 429
	Z > 29 ≤ 100 <sup>d</sup>	1125	1550 min.	7	11	444 min.
Hardened and tempered + cold drawn or hardened tempered + cold drawn + ground	U > 100 ≤ 150	765	925 to 1075	9	42	269 to 331
	V > 63 ≤ 150	850	1000 to 1150	9	42	293 to 352
	W > 29 ≤ 150 <sup>d</sup>	940	1075 to 1225	8	35	311 to 375
	X > 29 ≤ 150 <sup>d</sup>	1020	1150 to 1300	7	28	341 to 401
	Y > 29 ≤ 150 <sup>d</sup>	1095	1225 to 1375	7	28	363 to 429
	Z > 29 ≤ 100 <sup>d</sup>	1235	1550 min.	5	11	444 min.
Softened + turned, ground or cold drawn or turned, ground or cold drawn + finally softened	-	-	-	-	-	277 max.