

Quality	16Mo3
According to Standard	EN 10273 : 2000
Number	1.5415



Comparable Standards	EN	W.N.
	16Mo3	1.5415

Chemical Analysis	C %	Si % max	Mn %	P% max
	0.12 - 0.20	0.35	0.40 - 0.90	0.030

Cr %	Cu max.	Mo %	Ni %
0.30	0.30	0.25 - 0.35	0.30

S% max	Al <sub>tot</sub>
0.025	1)

### Hot Work and Heat Treatment Temperatures

Normalizing	Temperature Range For Quenching	
	Austenitizing	Tempering <sup>2)</sup>
890 to 950	--	-- <sup>3)</sup>

### Mechanical Properties at Room Temperature

Usual delivery condition	Diameter or thickness mm		Yield Strength R N/mm <sup>2</sup> min.
	over	up to	
+N <sup>5)</sup>	16	16	275
	40	40	270
	60	60	260
	100	100	240
	150	150	220

Tensile Strength N/mm <sup>2</sup>	Elongation after fracture (L <sub>0</sub> = 5,65S <sub>0</sub> ) A (longitudinal) % min.	Minimum impact energy value KV (longitudinal) J at temperatures in °C	
440 to 590	24		
430 to 580	23	-	40
420 to 570	22		
	19		

- 1) The Al content of the cast shall be determined and given in the inspection document.
- 3) In Certain Cases, tempering at 590 to 650 °C may be necessary
- 5) This Steel Grade may, at the discretion of the manufacturer, also be supplied in the condition '+NT'.