

Quality	X15CrMo5-1
According to Standard	EN 10269 : 2013 (E)
Number	1.7390



Comparable Standards	EN	W.N.
	X15CrMo5-1	1.7390

Chemical Analysis	C %	Si % max	Mn %
	≤ 0.18	≤ 0.40	0.30 - 0.80
	B	Cr %	Mo %
	-	4.0 - 6.0	0.45 - 0.65
	P% max	S% max	Al <sub>tot</sub>
	0.025	0.015	-
	Ni %	V %	Others
	-	-	-

#### Guidance for Heat Treatment

Heat Treatment Symbol <sup>a</sup>	Normalizing, quenching or Solution annealing temperature °C	Type of cooling <sup>b</sup>	Tempering or precipitation treatment (and time) °C
+ NT	925 to 975	a	690 to 750
+ QT	925 to 975	o	690 to 750

#### Mechanical Properties at Room Temperature

Heat Treatment Condition <sup>a</sup>	Hardness	Diameter <sup>c</sup>	Proof Strength	Tensile strength
	HBW max	d mm	R <sub>p0.2</sub> Mpa min.	R <sub>m</sub> Mpa
+ NT or + QT	-	d ≤ 160	420	640 to 780
	Elongation after fracture	Reduction in area	Impact energy(ISO-	
	A %	Z %	KV <sub>2</sub>	
	min.	min.	J min.	
	14	45	40	