Quality	**40CrMoV4-6**
According to Standard	**EN 10269 : 2013 (E)**
Number	**1.7711**

ALOK INGOTS
steel re engineered
AN ISO 9001:2008 CERTIFIED COMPANY

Comparable Standards	**EN**	**W.N.**
	40CrMoV4-6	1.7711

Chemical Analysis

C %	**Si % max**	**Mn %**
0.36 to 0.44	≤ 0.40	0.45 to 0.85
B	**Cr %**	**Mo %**
-	0.90 to 1.20	0.50 to 0.65
P% max	**S% max**	**Al_{tot}**
0.025	0.035	≤ 0.015
Ni %	**V %**	**Others**
-	0.25 to 0.35	-

Guidance for Heat Treatment

Heat Treatment Symbol [a]	**Normalizing, quenching or Solution annealing temperature °C**	**Type of cooling [b]**	**Tempering or precipitation treatment (and time) [c] °C**
+ QT [d]	880 to 950	w, o	670 to 720
+ QT [e]	940 to 970	w, o	600 to 700

Mechanical Properties at Room Temperature

Heat Treatment Condition [a,b]	**Hardness**	**Diameter [c]**	**Proof Strength**	**Tensile strength**
	HBW max	**d mm**	**$R_{p0,2}$ Mpa min.**	**Rm Mpa**
+ QT	-	d ≤ 100	700	850 to 1000
		100 < d ≤ 160	640	850 to 1000
+ A	241	-	-	-

Elongation after fracture A % min.	**Reduction in area Z % min.**	**Impact energy(ISO-V) at 20°C KV_2 J min.**
14	45	40
14	45	40
-	-	-