

This page is mainly introduced the **B 637 N07750 Type 2 Datasheet**, including **chemical information, mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc.** It also contains the use of **B 637 N07750 Type 2**, such as it is commonly used in bars, sheet, plates, steel coils, steel pipes, forged and other materials application.

## Datasheet for Steel Grades Superalloys B 637 N07750 Type 2

### B 637 N07750 Type 2 Standard Number:

ITEM	Standard Number	Descriptions
1	B 637 (2012)	Precipitation-Hardening and Cold Worked Nickel Alloy Bars, Forgings, and Forging Stock for Moderate or High Temperature Service

### B 637 N07750 Type 2 Chemical composition (mass fraction) (wt.%)

Chemical		Min.(%)		Max.(%)					
C				0.08					
Mn				1.0					
Si				0.5					
S				0.01					
P				0.015					
Cu				0.5					
Fe		5.0		9.0					
Co				1.0					
Nb		0.70		1.20					
Cr		14.0		17.0					
Ni		70							
Al		0.40		1.00					
Ti		2.25		2.75					
C	Si	Mn	P	S	Cr	Ni	Mo	V	Ta
W	N	Cu	Co	Pb	B	Nb	Al	Ti	Other

B 637 N07750 Type 2, Precipitation-Hardening and Cold Worked Nickel

## Alloy Bars, Forgings, and Forging Stock for Moderate or High Temperature Service

### B 637 N07750 Type 2 Physical Properties

Tensile strength	115-234	$\sigma_b$ /MPa
Yield Strength	23	$\sigma_{0.2} \geq$ /MPa
Elongation	65	$\delta_5 \geq$ (%)
$\psi$	-	$\psi \geq$ (%)
Akv	-	Akv $\geq$ /J
HBS	123-321	-
HRC	30	-

### B 637 N07750 Type 2 Mechanical Properties

Tensile strength	231-231	$\sigma_b$ /MPa
Yield Strength	154	$\sigma_{0.2} \geq$ /MPa
Elongation	56	$\delta_5 \geq$ (%)
$\psi$	-	$\psi \geq$ (%)
Akv	-	Akv $\geq$ /J
HBS	235-268	-
HRC	30	-

### B 637 N07750 Type 2 Heat Treatment Regime

Annealing	Quenching	Tempering	Normalizing	Q & T
√	√	√	√	√

### B 637 N07750 Type 2 Range of products

Product type	Products	Dimension	Processes	Deliver Status
Plates / Sheets	Plates / Sheets	0.08-200mm(T)*W*L	Forging, hot rolling and cold rolling	Annealed, Solution and Aging, Q+T, ACID-WASHED, Shot Blasting
Steel Bar	Round Bar, Flat Bar, Square Bar	Φ8-1200mm*L	Forging, hot rolling and cold rolling, Cast	Black, Rough Turning, Shot Blasting,
Coil / Strip	Steel Coil /Steel Strip	0.03-16.0x1200mm	Cold-Rolled & Hot-Rolled	Annealed, Solution and Aging, Q+T, ACID-WASHED, Shot Blasting

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Pipes / Tubes	Seamless Pipes/Tubes, Welded Pipes/Tubes	OD:6-219mm x WT:0.5-20.0mm	Hot extrusion, Cold Drawn, Welded	Annealed, Solution and Aging, Q+T, ACID- WASHED
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**We can produce Superalloys the specifications follows:**