

This page is mainly introduced the Forging and Heat Treatment of 403CB Stainless Steel Datasheet, including chemical information, mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of Forging and Heat Treatment of 403CB Stainless Steel, such as it is commonly used in bars, sheet, plates, steel coils, steel pipes, forged and other materials application.

## Datasheet for Steel Grades Steels of blade for steam turbine Forging and Heat Treatment of 403CB Stainless Steel

### Forging and Heat Treatment of 403CB Stainless Steel Standard Number:

ITEM	Standard Number	Descriptions
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### Forging and Heat Treatment of 403CB Stainless Steel Chemical composition(mass fraction)(wt.%)

Chemical				Min.(%)			Max.(%)		
C	Si	Mn	P	S	Cr	Ni	Mo	V	Ta
W	N	Cu	Co	Pb	B	Nb	Al	Ti	Other

The effects of forging and normalizing temperature on microstructure and mechanical properties of 403CB stainless steel were studied. The results show that: the influence of forging and normalizing temperature on strength and toughness is more significant than plasticity. Forging at 1130°C and normalizing at 1030°C is a better process, which obtains high strength and toughness

### Forging and Heat Treatment of 403CB Stainless Steel 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	-

### Forging and Heat Treatment of 403CB Stainless Steel 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	-

### Forging and Heat Treatment of 403CB Stainless Steel Heat Treatment Regime

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

### Forging and Heat Treatment of 403CB Stainless Steel 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	$\Phi 8$ -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
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

**We can produce Steels of blade for steam turbine the specifications follows:**