

This page is mainly introduced the ?C16K-B? Datasheet, including chemical information,mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of ?C16K-B?,such as it is commonly used in bars, sheet,plates, steel coils, steel pipes,forged and other materials application.

Datasheet for Steel Grades Special Alloy ЖC16K-BИ

?C16K-B? Standard Number:

ITEM	Standard Number	Descriptions
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?C16K-B? Chemical composition(mass fraction)(wt.%)

Chemical		Min.(%)					Max.(%)			
C	Si	Mn	P	S	Cr	Ni	Mo	V	Ta	
	0.2	Max 0.4	0.015	0.015						
W	N	Cu	Co	Pb	B	Nb	Al	Ti	Other	
				0.001	0.02				La Max 0.02,Hf 0.7-1.2	

ЖC16K-BИ

?C16K-B? Physical Properties

Tensile strength	115-234	σ_b /MPa
Yield Strength	23	$\sigma_{0.2} \geq$ /MPa
Elongation	65	$\delta_{5 \geq}$ (%)
ψ	-	$\psi \geq$ (%)
Akv	-	Akv \geq /J
HBS	123-321	-
HRC	30	-

?C16K-B? Mechanical Properties

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

?C16K-B? Heat Treatment Regime

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

?C16K-B? 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 Special Alloy the specifications follows: