

This page is mainly introduced the B??18-B? Datasheet, including chemical information, mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of B??18-B?, such as it is commonly used in bars, sheet, plates, steel coils, steel pipes, forged and other materials application.

## Datasheet for Steel Grades Specialsteel BЖЛ18-ВИ

### B??18-B? Standard Number:

ITEM	Standard Number	Descriptions
------	-----------------	--------------

### B??18-B? Chemical composition (mass fraction) (wt.%)

Chemical	Min.(%)	Max.(%)
C	0.10	0.15
Cr	17.00	18.00
Ni		remaining
Co	4.00	6.00
Mo	4.50	6.00
W	2.50	4.00
Al	3.40	4.00
Ti	2.20	3.00
Nb	1.20	1.80
Fe		1.00

  

C	Si	Mn	P	S	Cr	Ni	Mo	V	Ta
W	N	Cu	Co	Pb	B	Nb	Al	Ti	Other

Russia GOCT Standard vacuum smelting casting high temperature alloy bar

### B??18-B? 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??18-B? 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??18-B? Heat Treatment Regime				
Annealing	Quenching	Tempering	Normalizing	Q & T
√	√	√	√	√

B??18-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 Specialsteel the specifications follows:**