

This page is mainly introduced the A 1018 HSLAS Grade 65 [450] Class 1 B Datasheet, including chemical information, mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of A 1018 HSLAS Grade 65 [450] Class 1 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 A 1018 HSLAS Grade 65 [450] Class 1 B

A 1018 HSLAS Grade 65 [450] Class 1 B Standard Number:

ITEM	Standard Number	Descriptions
1	A 1018/A 1018M (2010)	Steel, Sheet and Strip, Heavy-Thickness Coils, Hot-Rolled, Carbon, Commercial, Drawing, Structural, High-Strength Low-Alloy, High-Strength Low-Alloy with Improved Formability, and Ultra-High Strength Steel

A 1018 HSLAS Grade 65 [450] Class 1 B Chemical composition (mass fraction) (wt.%)

Chemical		Min.(%)		Max.(%)					
C				0.15					
Mn		0.30		0.60					
Si		0.50		1.00					
P				0.03					
S				0.03					
Cr		8.00		10.00					
Ni									
Mo		0.90		1.10					
C	Si	Mn	P	S	Cr	Ni	Mo	V	Ta
W	N	Cu	Co	Pb	B	Nb	Al	Ti	Other

Steel, Sheet and Strip, Heavy-Thickness Coils, Hot-Rolled, Carbon, Commercial, Drawing,

Structural, High-Strength Low-Alloy, High-Strength Low-Alloy with Improved Formability, and

Ultra-High Strength Steel

### A 1018 HSLAS Grade 65 [450] Class 1 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	-

A 1018 HSLAS Grade 65 [450] Class 1 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	-

A 1018 HSLAS Grade 65 [450] Class 1 B Heat Treatment Regime				
Annealing	Quenching	Tempering	Normalizing	Q & T
√	√	√	√	√

A 1018 HSLAS Grade 65 [450] Class 1 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:**