

This page is mainly introduced the 1.0729 Datasheet, including chemical information, mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of 1.0729, such as it is commonly used in bars, sheet, plates, steel coils, steel pipes, forged and other materials application.

Datasheet for Steel Grades Specialsteel 1.0729

1.0729 Standard Number:					
ITEM	Standard Number	Descriptions			

1.0729 Chemical composition(mass fraction)(wt.%)									
Chemical				Min.(%)			Max.(%)		
С				0.65			0.75		
Si				0.10			0.40		
	Mn			0.50			0.90		
Р							0.07		
	S			0.15			0.25		
Fe							Bal		
С	Si	Mn	Р	S	Cr	Ni	Мо	V	Ta
W	N	Cu	Со	Pb	В	Nb	Al	Ti	Other

Distinctive feature & main attribute: an unalloyed free cutting mild steel, added with lead and sulphur, showing an excellent machinability.

Use & application range: this quality is specially designed for the production of parts of delicate use such as automotive, watch and micro-motor industries, mechanical constructions, jig construction or settings.

Free Cutting High Carbon Steel



1.0729 Physical Properties					
Tensile strength	115-234	σb/MPa			
Yield Strength	23	σ 0.2 ≥/MPa			
Elongation	65	δ5≥ (%)			
Ψ	-	ψ≥ (%)			
Akv	-	Akv≥/J			
HBS	123-321	-			
HRC	30	-			

1.0729 Mechanical Properties					
Tensile strength	231-231	σb/MPa			
Yield Strength	154	σ 0.2 ≥/MPa			
Elongation	56	δ5≥(%)			
ψ	-	ψ≥(%)			
Akv	-	Akv≥/J			
HBS	235-268	-			
HRC	30	-			

1.0729 Heat Treatment Regime						
Annealing Quenching		Tempering	Normalizing	Q & T		
\checkmark	\checkmark	\checkmark	\checkmark	\checkmark		

1.0729 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		
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: