



# 钢铁之家

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# 全球钢号百科!

## Global Steel Grade Encyclopedia



涵盖的行业或国家与地区类别



美国材料与试验协会

GJB

国家军用标准



动力机械工程师协会

EU

前欧洲标准化

AISI

美国钢铁学会



德国工业标准

AMS

航空航天材料规范



国际标准

JASO

日本汽车标准组织

EN

欧洲标准

JB

中国机械行业标准

UNS

统一编号系统

UNI

意大利标准



美国机械工程师协会

SS

瑞典标准



国家标准



日本工业标准

This page is mainly introduced the 1.2888 Datasheet, including chemical information, mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of 1.2888, such as it is commonly used in bars, sheet, plates, steel coils, steel pipes, forged and other materials application.

## Datasheet for Steel Grades Tool Steel 1.2888

1.2888 Standard Number:

ITEM	Standard Number	Descriptions
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### 1.2888 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	

C	Si	Mn	P	S	Cr	Ni	Mo	Other
0.17-0.23	0.15-0.35	0.40-0.60	0.035	0.035	9.00-10.0		1.80-2.20	W 5.00-6.00 Co 9.50-10.5

### 1.2888 Physical Properties

Tensile strength	115-234	$\sigma_b$ /MPa
Yield Strength	23	$\sigma_{0.2} \geq$ /MPa
Elongation	65	$\delta_5 \geq$ (%)

**Steel Grades 1.2888 Chemical information, Mechanical properties**  
Physical properties, Mechanical properties, Heat treatment, and Micro structure

ψ	-	ψ ≥ (%)
Akv	-	Akv ≥ J
HBS	123-321	-
HRC	30	-

### 1.2888 Mechanical Properties

Tensile strength	231-231	σ <sub>b</sub> /MPa
Yield Strength	154	σ <sub>0.2</sub> ≥/MPa
Elongation	56	δ <sub>5</sub> ≥ (%)
ψ	-	ψ ≥ (%)
Akv	-	Akv ≥ J
HBS	235-268	-
HRC	30	-

### 1.2888 Heat Treatment Regime

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

### 1.2888 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