

Steel for exhaust valves S63009 steel chemical information, mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, We can produce round bars, forged rings, forged cakes, flat bars, tubes, sheets, plates, steel wires, steel strips, steel coils, etc. The size can be customized, the maximum order quantity is 100Kg. It also contains the use of **S63009**, such as it is commonly used in bars, sheet, plates, steel coils, steel pipes, forged and other materials application.

Data Table for Materials Stainless Steels & Special Steels Steel for exhaust valves S63009

S63009 Standard Number									
ITEM	Standard Number			Descriptions					
		<u>5630</u>	09 Chemic	al composi	tion(mass f	raction)(w	t.%)		
Chemical				Min.(%)			Max.(%)		
С				0.35			0.50		
Si				0.30			0.80		
Mn							1.00		
Р				0.045					
S							0.030		
Cr				12.0			15.0		
Ni				12.0			15.0		
Мо				0.20			0.50		
W			1.50			3.00			
С	Si	Mn	Р	S	Cr	Ni	Мо	V	Та
W	Ν	Cu	Со	Pb	В	Nb	AI	Ti	Other

S63009 Physical Properties					
Tensile strength	115-234	σb/MPa			

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Viold Strongth	23	σ 0.2 ≥/MPa
Yield Strength	25	0 0.2 E/M d
Elongation	65	δ5≥ (%)
Ψ	-	ψ≥ (%)
Akv		Akv≥/J
HBS	123-321	
HRC	30	

S63009 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	-				

S63009 Heat Treatment Regime					
Annealing Quenching		Tempering	Normalizing	Q & T	
\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	

S63009 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,		



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Pipes / Tubes

Seamless Pipes/Tubes, Welded Pipes/Tubes OD:6-219mm x WT:0.5-20.0mm Hot extrusion, Cold Drawn, Welded ACID-WASHED, Shot Blasting

Annealed, Solution and Aging, Q+T, ACID-WASHED

We can produce Stainless Steels & Special Steels the specifications follows:

Note:

(1) listed in the table apex diameter (d), to steel thickness (a) multiples said. (2) in the ASTM A6 standard specified scope can meet any additional conditions. (3) from the standard for 50 mm (2 in). Mechanical properties Mechanische Eigenschaften Caracteristiques mecaniques ReH Minimum yield strength / Mindestwert der oberen Streckgrenze / Limite d'elasticite minimale Rm Tensile strength / Zugfestigkeit / Resistance a la traction A Minimum elongation / Mindestwert der Bruchdehnung / Allongement minimal J Notch impact test / Kerbschlagbiegeversuch / Essai de flexion par choc Round bar: Diameter : 1mm-2000mm Square bar: Size: 50mm * 50mm-600mm *600mm Plate steel/flat bar: Size: Thickness: 0.1mm-800mm Width: 10mm to 1500mm Tube/pipe: Size: OD: 6-219mm WT: 1-35 mm. Cold-rolled sheet: Thickness: 2-5mm Width:1000mm Length: 2000mm Hot-rolled sheet: Thickness:6-80mm Width: 210-610mm Length: We can supply any length based on the customer's requirement. Forging/hot rolling/ extrusion of steel. Forging: Shafts with flanks/pipes/tubes/slugs/donuts/cubes/other shapes Finished goods condition: hot forging/hot rolling + annealing/normalizing + tempering/quenching + tempering/any conditions based on the customer's requirement Surface conditions: scaled (hot working finish)/ground/rough machining/fine machining/based on the customer's requirement Furnaces for metallurgical processing: electrode arc + LF/VD/VOD/ESR/Vacuum consumable electrode. Ultrasonic inspection: 100% ultrasonic inspection for any inperfections or based on the customer's



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requirement.

UTS according to SEP 1921 C/c,D/d,E/e;A388 or GB/T 6402

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