

Plastic mould with flat steel SM45 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 **SM45**, such as it is commonly used in bars, sheet, plates, steel coils, steel pipes, forged and other materials application.

SM45 Standard Number ITEM Standard Number Descriptions SM45 Chemical composition(mass fraction)(wt.%) Chemical Max.(%) Min.(%) С Si Mn Ρ S Ni V Cr Мо Ta 0.420.4 0.17[]0.3 0.50 0.8 0.030 0.030 8 7 0 W Ν Cu Со Pb В Nb AI Ti Other

Data Table for Materials Special Alloy Plastic mould with flat steel SM45

SM45 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						

SM45 Mechanical Properties



## **CCTTC - SM45 Datasheet, Chemical Composition**

Plastic mould with flat steel SM45 Mechanical properties, Physical properties, Mechanical properties, Heat treatment, SM45 Supplier

231-231	σb/MPa		
154	σ 0.2 ≥/MPa		
56	δ5≥(%)		
-	ψ≥(%)		
-	Akv≥/J		
235-268			
30			
	154 56 - - 235-268		

SM45 Heat Treatment Regime					
Annealing	Quenching	Tempering	Normalizing	Q & T	
$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	

SM45 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 Special Alloy the specifications follows:

Note:

(1) listed in the table apex diameter (d), to steel thickness (a) multiples said.



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(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 requirement. UTS according to SEP 1921 C/c,D/d,E/e;A388 or GB/T 6402 Excellent service for all kinds of industries, with advantages of technologies, equipment and price. We serve you with our honesty, integrity, and professionality.