

# Material: ONORM EN 12420 CW612N

## Standard Specification for Copper and Copper-Alloy Forgings

**Group:** Non-Ferrous Copper Alloy

**Sub Group:** ONORM EN 12420 Copper and Copper-Alloy Forgings

**Application:** Intended for Valve, Pump, General Engineering, Automotive and Other Industries Grade

**Belongs to the Industry:** Forging

Chemical Composition			Heat Treatment	
Aluminium	Al %	0.050 max.	Normalizing or Annealing or Tempering	
Iron	Fe %	0.300 max.		
Nickel	Ni %	0.300 max.		
Other	Ot%	0.200 max.		
Lead	Pb %	1.600 - 2.500		
Tin	Sn %	0.300 max.		
Copper	Cu %	59.000 - 60.000		
Zinc	Zn %	Balance		
-	-	-	<b>Mechanical Properties</b> Tensile Strength in Mpa 350 - 570 Yield Strength in Mpa 140 - 510 Elongation in % 5 - 30 Reduction of Area in % - Hardness in HB 70 - 145 Impact in Joule -	
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-	-	-		
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
B981 C37700	ASTM	USA	Rod, Bar, Wire and Shapes
CuZn39Pb2	UNI	Italy	Plate, Sheet and Strip
CW612N	UNI	Italy	Forging
B283 C37700	ASTM	USA	Forging
SB-283 C37700	ASME	USA	Forging
CA377	SAE	USA	Forging
C37700	UNS	USA	Rod, Bar, Tube and Shapes

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