

# Material: UNI EN 1982 CuZn35Mn2Al1Fe1-C

## Standard Specification for Copper and Copper Alloys - Ingots and Castings

**Group:** Non-Ferrous Copper Alloy

**Sub Group:** UNI EN 1982 Copper and Copper Alloys - Ingots and Castings

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

**Belongs to the Industry:** Ingot and Casting

Chemical Composition		
Aluminium	Al %	0.500 - 2.500
Iron	Fe %	0.500 - 2.000
Manganese	Mn %	0.500 - 3.000
Nickel	Ni %	6.000 max.
Phosphorus	P %	0.030 max.
Lead	Pb %	0.500 max.
Antimony	Sb %	0.080 max.
Silicon	Si %	0.010 max.
Tin	Sn %	1.000 max.
Cu + Ni	Cu%+Ni%	57.000 - 65.000
Zinc	Zn %	Balance
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Cast

Mechanical Properties	
Tensile Strength in Mpa	450 - 500
Yield Strength in Mpa	170 - 200
Elongation in %	18 - 20
Reduction of Area in %	-
Hardness in HB	110 - 120
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
CB765S	BS	British	Ingot and Casting
CC765S	AFNOR NF	France	Ingot and Casting
CC765S	BDS	Bulgaria	Ingot and Casting
CC765S	CSN	Czech Republic	Ingot and Casting
CC765S	DIN	Germany	Ingot and Casting
CuZn35Mn2Al1Fe1-C	UNE	Spain	Ingot and Casting
CuZn35Mn2Al1Fe1-C	MSZ	Hungary	Ingot and Casting

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