

AL-377 (Pb-Brass) ROLLED PRODUCTS

CHEMICAL COMPOSITION, %		
Cu	58-62	
Pb	1.0-2.0	
Zn	Rem.	
Ni	≤ 0.3	
Fe	≤ 0.2	

ALLOY DESIGNATIONS		
UNS	37700	
EN	ZnCu39Pb2	
JIS	C3771	
BS	CZ120	

COIL SHEET SPECIFICATIONS				
Thickness (mm)	0.30- 3.5			
Width (mm) *	6.00 - 406			
Inner Diameter (mm)	100-150-200-300-400-500			
Coil Weight (Kg/mm width) 1.0-4.0				
Sheet Length (m)	0.50 - 3.00			
*Note: Min and May width depends on thickness of the strip				

CHARACTERISTICS

Al-377 is commonly known as forging brass. This is most used alloy for machining operations. This alloy has excellent hot working and forging properties. Cold forming is only possible to a minor extent.

MECHANICAL PROPERTIES					
Tempe	r	Hardness , HV	Tensile Strength MPa	Elongation % Min.	
1/2 Hard	H02	110-140	≥420	10	
Hard	H04	140-165	≥490	5	
Extra Hard	Н06	165-190	≥525	3	

PHYSICAL PROPERTIES				
TYPICAL VALUES IN ANNEALED TEMPER AT 20° C				
Density	Electrical Conductivity	Thermal conductivity	Modulus of Elasticity	Specific Heat
(g/cm³)	(% IACS)	(W/m.K)	(GPa)	(J/kg.K)
8.45	24	117	102	377

ARCOTECH LTD

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Fabrication Properties			
Capacity Being Cold Worked	Fair		
Machinability	Excellent		
Capacity for Being Electroplated	Excellent		
Capacity for Being Hot Dip Tinned	Excellent		
Soft Soldering	Fair		
Resistance Welding	Fair		
Gas Shielded Arc Welding	Less suitable		
Laser Welding	Fair		

CORROSION RESISTANCE

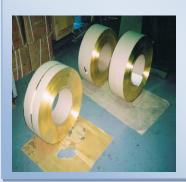
AL-377 is good resistance to water, water vapor, different saline solutions, many organic liquids land, sea and industrial atmosphere.

Under certain circumstances a form of corrosion called dezincification can occur.

This alloy also tend to stress corrosion cracking under stressed condition in presence of amine ammonia salts, however an heat treatment can help to avoid stress corrosion cracking.

Packaging

Standard seaworthy packaging or as per specific requirements of customer.



TYPICAL APPLICATIONS

- Keys
- Precision mechanical components
- Watch and clocked parts
- Milled parts

AL-377 conform ROHS Directive

This data is general technical product information. Binding technical features are subject to the contract.

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