

The composition is according to following table:

ASTM B111-C71640

Composition WT%	
ELEMENT	SPECIFICATION
Cu	remainder
Nickel incl Cobalt	29.0-32.0
Lead max	0.05
Iron	1.7-2.3
Zinc	1.0 max
Manganese	1.5-2.5
Carbon	0.06 max
sulfur	0.03 max

The tube in straight length according to ASTM B111 with particular reference to the following table:

size	Thickness tolerance(mm)	diameter, Length tolerance (mm)
19.05*1.24*6886	According to standard (minimum wall thickness)	According to standard

code	Tensile strength (min Mpa)	expansion
O61(annealed)	435	30 %
* Other mechanical properties including: Hardness (HV), grain size, elongation should be presented. In addition, eddy current (100%) test and flattening should be done.		

The tubes shall free from defects for instance stain, oil, discoloration. Also, the tubes shall have smooth and clean surface (both outer and inner surface).

cutting surface parameter:

parameter	rate
Cutting and shrinking rate	No shrinking
Cutting and burring rate	No burr
Angle-cut end	0°