



QUALITY TEST CERTIFICATION

Customer		Total Ingenieros S. A. C.	Alloy No.	C12200	Order No.	22HLHK05W401	Specification	ASTM B88	Temper	H58	Quantity		
Dimensions		Φ 3/8" × 0.76 × 6000			Lot No.	HLTo20220725-1	Marking	C12200/ H58/Φ3/8"×0.76×6000mm HLTo20220725-1					
Test No.		Tensile Test				Cleanness mg/M²	Hardness HR30T	Ellipticity					
		Tensile Strength Mpa											
Requirement		≥ 250				≤ 38	≥ 30	≤ 0. 08					
Sample 1		425				36. 20	58.20	0. 02					
Sample 2		423				36. 20	58.20	0. 03					
Test No.		Chemical Composition (%)						Dimensions			Straightness		
		Cu	P					O. D (mm)	W. T (mm)	L (mm)			
Requirement	Max.		0. 040					Avg.±0.0012"		0.84	0~+10	≤4mm/m	
	Min.	≥99.90%	0. 015				0.68						
Sample 1		≥ 99.90%	0. 0274					0.3744"	0.3752"	0.71	0.77	6005	≤3mm/m
Sample 2		≥ 99.90%	0. 0274					0.3740"	0.3752"	0.72	0.77	6006	≤3mm/m

We hereby certify that the material described in this report has been tested and complies with the requirements of the Order & Standard