



# QUALITY TEST CERTIFICATION

Customer	Total Ingenieros S. A. C.	Alloy No.	C12200	Order No.	22HLHK05W401	Specification	ASTM B88	Temper	H58	Quantity	
Dimensions	Φ 5/8" × 1.02 × 6000			Lot No.	HLTo20220725-4	Marking	C12200/ H58/Φ5/8"×1.02×6000mm HLTo20220725-4				
Test No.	Tensile Test			Cleanness mg/M <sup>2</sup>	Hardness HR30T	Ellipticity					
	Tensile Strength Mpa										
Requirement	≥250			≤38	≥30	≤0.13					
Sample 1	425			37.00	59.00	0.07					
Sample 2	420			37.00	59.00	0.06					
Test No.	Chemical Composition (%)					Dimensions				Straightness	
	Cu	P				O. D (mm)	W. T (mm)		L (mm)		
Requirement	Max.	0.040				Avg.±0.0012"		1.12		0~+10	≤4mm/m
	Min.	≥99.90%	0.015				0.92				
Sample 1	≥99.90%	0.0311				0.6240"	0.6252"	0.95	1.07	6007	≤3mm/m
Sample 2	≥99.90%	0.0311				0.6244"	0.6252"	0.96	1.08	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*