

Plant Id and Name Project NO Sample ID Batch NO Received Date  
 T8 MATERIALS CONTROL LABORATORIES QTS19847 S-12-044811 T8168581 10/4/2012

Heat ID Sample Type Job ID Serial NO Melt ID Section Ingot Code Alloy  
 QTS19847 TI-6-4

Vendor Alloy Furnace % Revert % Prime % Virgin Balance Lot Number  
 Ti

Customer Customer Part ID Base Spec Rev Amend Eng Class Test Reason  
 ASTM F136 11 Q

Chemistry	Specifications				
	Result	Units	Min	Max	Method
Aluminum (Al)	6.49	%	5.5	6.50	ICP
Boron (B)	<0.01	%		0.0014	ICP
Carbon (C)	0.01	%		0.08	Combustion
Chromium (Cr)	<0.01	%		0.10	ICP
Cobalt (Co)	<0.01	%		0.10	ICP
Copper (Cu)	<0.01	%		0.10	ICP
Hydrogen (H)	0.006	%		0.012	Combustion
Iron (Fe)	0.02	%		0.25	ICP
Magnesium (Mg)	<0.01	%		0.10	ICP
Manganese (Mn)	<0.01	%		0.10	ICP
Molybdenum (Mo)	<0.01	%		0.10	ICP
Nickel (Ni)	<0.01	%		0.10	ICP
Nitrogen (N)	<0.01	%		0.05	Combustion
Oxygen (O)	0.05	%		0.13	Combustion
Silicon (Si)	0.01	%		0.10	ICP
Tin (Sn)	<0.01	%		0.10	ICP
Vanadium (V)	4.2	%	3.5	4.5	ICP
Yttrium (Y)	<0.01	%		0.10	ICP
Zirconium (Zr)	<0.01	%		0.10	ICP

Remarks

TESTING PERFORMED FOR:  
 Flawless Jewelry  
 7410 Coca Cola Drive #107  
 Hanover, Md 21076

Approved By  
 Regina Starr, Chemical Analyst  
 Reported Results Meet All Specification Requirements

Date Approved  
 10/8/2012