

Certificate of Calibration

Unit s/n: 57854
 Date of Q.C.: 10.9.2018
 Resolution: 179.91 Escalate: 7.26
 151.84 7.29

Model: XL3t 950
 Inspector: TT
 Source: Tube

Software: 8.4G
 Detector: SDD

Filter 1 for 30 seconds

Units configured with Am-241 source (15mCi or 30mCi) or tube

		Certified	Low	High	%	Err	OK
Pure Fe	Fe	99.9	99	100	99.914	0.052	OK
Pure Cu	Cu	99.9	99	100	99.887	0.036	OK
Pure Zn	Zn	99.9	99	100	99.99	0.317	OK
Pure Ti	Ti	99.9	99	100	99.99	0.078	OK
Pure Pb	Pb	99.9	99	100	99.928	0.158	OK
Pure Sn	Sn	99.9	99	100	99.985	0.339	OK

IARM 25C	Alloy 20	Nb	0.58	0.48	0.68	0.543	0.005	OK
		Mo	2.26	2.19	2.42	2.207	0.011	OK
		Cu	3.51	3.26	3.76	3.596	0.04	OK
		Ni	33.30	31.49	35.49	33.052	0.088	OK
		Fe	bal	-	-	39.108	0.08	
		Cr	19.97	19.45	20.50	20.179	0.056	OK

IARM 86C	CDA 836	Sn	4.37	3.39	5.39	4.451	0.027	OK
		Pb	5.03	4.64	5.44	5.349	0.044	OK
		Zn	5.38	4.9	5.9	5.413	0.035	OK
		Cu	bal	-	-	84.042	0.067	

IARM 69B	Hast X	Mo	8.78	8.16	9.39	8.761	0.03	OK
		W	0.78	0.50	1.06	0.775	0.028	OK
		Ni	47.37	45.47	49.26	47.697	0.089	OK
		Co	1.58	1.3	1.9	1.706	0.043	OK
		Fe	17.84	16.95	18.73	17.988	0.069	OK
		Cr	21.90	21.02	22.78	22.062	0.069	OK

IARM 6C	AISI 321	Mo	0.358	0.228	0.428	0.367	0.004	OK
		Cu	0.302	0	0.42	0.366	0.018	OK
		Ni	9.42	8.98	9.78	9.344	0.065	OK
		Fe	bal	-	-	69.624	0.096	
		Mn	1.52	1.22	1.82	1.599	0.041	OK
		Cr	17.45	16.95	17.95	17.492	0.051	OK
		Ti *	0.63	0.50	0.85	0.646	0.024	OK

IARM 95B	Alloy 6B	Mo	0.83	0.70	0.96	0.835	0.006	OK
		W	3.42	3.12	3.72	3.411	0.045	OK
		Ni	2.25	1.95	2.55	2.15	0.042	OK
		Co	60.90	60.00	64.00	60.65	0.1	OK
		Fe	1.10	0.70	1.50	1.079	0.028	OK
		Mn	0.99	0.60	1.40	0.985	0.035	OK
		Cr	28.80	28.20	30.20	28.58	0.069	OK

IARM 35F	1.25Cr 0.5Mo	Mo	0.48	0.43	0.53	0.51	0.005	OK
		Cu	0.03	0	0.12	0.036	0.008	OK
		Fe	bal	-	-	96.933	0.06	
		Mn	0.5	0.35	0.85	0.516	0.021	OK
		Cr	1.16	0.96	1.36	1.167	0.016	OK

BS 32D	M2	Mo	4.92	4.67	5.17	4.895	0.018	OK
		W	6.15	5.65	6.65	6.22	0.061	OK
		Fe	bal	-	-	81.177	0.1	
		Cr	4.14	3.73	4.53	4.228	0.035	OK
		V	1.82	1.39	2.19	1.812	0.034	OK

IARM 177B	Ti 6-2-4-2	Sn	1.95	1.85	2.05	1.951	0.014	OK
		Mo	1.93	1.73	2.13	1.821	0.011	OK
		Zr	3.97	3.87	4.07	3.961	0.018	OK
		Ti	bal	-	-	86.585	0.141	

Elements that are in BLUE BOLD should be detected

Elements not in BLUE BOLD need not be detected but record if present

**** Sample contains < 0.05% Of the following elements and do not need to be traced: Mn, Cr, Zn, Ti, V, Sn, Pb, Bi**

This certificate is issued with Thermo Scientific Factory factory specification.

The measurements were found to be within specification limits at the time of manufacture and calibration.

Standards are traceable to National Institute of Standards & Technology (NIST) standards.