



Lampiran 1 Sertifikat Aluminium 6061

M : FAX NO. : Oct. 30 2012 09:59AM P1

INSPECTION CERTIFICATE No 11.9586
EN 10204 - 3.1 KUM-04

Consigner:		Quantity: 29								
Designee:		Net Weight, kg: 1422								
Contract number: V1263-S PO-KL M-01/170111 part 1		Specification No: V1263								
Article number:		Lot No: 1								
		Package No: 715210								
Description of Goods: Sheet:		Requirements on the Products:								
Grade of Product:	Dimensions, inch/mm	Material conforms to quality of alloy: 6061 T651								
	6.000X1219.2X2438.4	Product conforms to all requirements of: ASTM B209-07 This product conforms to European Union RoHS Directive 2002/95/EC								
Mechanical Properties										
The Condition of Tested Standards	Lot Number	Cast Number	Number of Tests	Tensile Strength		Yield Strength (0.2% offset)		Elongation, %		Hardness, HB
				ksi	ksi	ksi	ksi	min	max	
Required				min	max	min	max	min	max	
	870190	13-6158	5	48.2	48.7	41.0	42.5	12.0	14.0	
Chemical Composition, %										
Element	Silicon Si	Iron Fe	Copper Cu	Manganese Mn	Magnesium Mg	Chromium Cr	Nickel Ni	Zinc Zn	Titanium Ti	Zirconium Zr
Required	0.4-0.8		0.7	0.15-0.40	0.15	0.8-1.2	0.04-0.35		0.25	0.15
Contents	0.88		0.22	0.21	0.08	1.01	0.05		0.08	0.08
Element	Ti+Zr	Pb	Tin Sn	Antimony Sb	Plumbum Pb	Mn+Cr	Cu	Other Elements		Al
Required								Each	Total	remainder
Contents								0.05	0.15	remainder
								0.05	0.15	remainder
Other Tests										
Method	Macro-structure	Micro-structure	UBI	Electro-conductivity	SCP	Contents H2 of metals cm ³ /100gr				
Result										

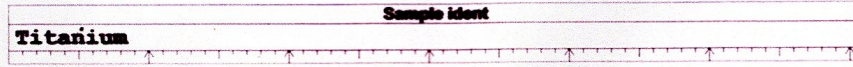
Lampiran 2

Hasil Uji XRF Titanium Alloy

22-Nov-2012 14:09:15

Sample results - Averages

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Application	<Standardless>
Sequence	Average of 3
Measurement period - start	22-Nov-2012 13:53:14
Measurement period - end	22-Nov-2012 14:06:03
Position	1

Compound	P	Ca	Ti	Fe	Ni	Zn	Tm
Conc	2.6 +/- 0.8	2.43 +/- 0.84	92.2 +/- 2.4	0.54 +/- 0.12	0.29 +/- 0.09	0.14 +/- 0.05	0.90 +/- 0.25
Unit	%	%	%	%	%	%	%

Compound	Yb	Re
Conc	0.9 +/- 0.6	0.3 +/- 0.04
Unit	%	%



