



FORMOSA SHYEN HORNG METAL SDN. BHD.

(Co. No: 434300-K)

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CERTIFICATE OF QUALITY

Invoice No. E11/1518

PRODUCT SECONDARY ALUMINIUM HOMOGENIZED ALLOY BILLET 6063 SIZE 4.5" DIAMETER x 5.80 METERS LENGTH 5.0" DIAMETER x 5.80 METERS LENGTH CONTAINER NO : / SEAL NO. CARU 2681914 HB475136 HJCU 8303135 HB475237 TRLU 8821191 HB475264 HJCU 8044672 HB475275	DATE OF CERTIFICATE 07/06/2011 GRAND TOTAL QUANTITY 64 BUNDLES 546 PIECES GRAND TOTAL WEIGHT NETT : 96.084 MTS GROSS : 96.724 MTS
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Analysis Element

Equivalent to Alloy : AA6063

	Si %	Fe %	Cu %	Mn %	Mg %	Cr %	Ni %	Zn %	Ti %	Al %
Billet Lot No : 20201 (4.5")										
	0.423	0.228	0.027	0.026	0.525	0.012	0.008	0.011	0.012	98.728
	0.422	0.231	0.028	0.026	0.522	0.011	0.008	0.012	0.012	98.728
x	0.423	0.230	0.028	0.026	0.524	0.012	0.008	0.012	0.012	98.728
Billet Lot No : 20202 (4.5")										
	0.430	0.177	0.019	0.017	0.521	0.005	0.005	0.010	0.009	98.807
	0.427	0.182	0.020	0.017	0.521	0.005	0.004	0.010	0.008	98.806
x	0.429	0.180	0.020	0.017	0.521	0.005	0.005	0.010	0.009	98.807
Billet Lot No : 20203 (4.5")										
	0.425	0.190	0.015	0.018	0.530	0.004	0.007	0.016	0.012	98.783
	0.421	0.187	0.015	0.017	0.527	0.003	0.007	0.015	0.012	98.796
x	0.423	0.189	0.015	0.018	0.529	0.004	0.007	0.016	0.012	98.796
Billet Lot No : 20204 (4.5")										
	0.467	0.181	0.028	0.021	0.524	0.008	0.005	0.018	0.012	98.736
	0.463	0.177	0.029	0.021	0.521	0.008	0.004	0.018	0.011	98.748
x	0.465	0.179	0.029	0.021	0.523	0.008	0.005	0.018	0.012	98.742
Billet Lot No : 20206 (4.5")										
	0.469	0.188	0.022	0.020	0.523	0.005	0.006	0.019	0.012	98.736
	0.464	0.182	0.021	0.020	0.526	0.004	0.006	0.018	0.012	98.747
x	0.467	0.185	0.022	0.020	0.525	0.005	0.006	0.019	0.012	98.742
Billet Lot No : 20188 (5")										
	0.438	0.184	0.028	0.017	0.538	0.008	0.006	0.012	0.011	98.758
	0.441	0.181	0.028	0.016	0.532	0.008	0.005	0.012	0.012	98.765
x	0.440	0.183	0.028	0.017	0.535	0.008	0.006	0.012	0.012	98.762
Billet Lot No : 20189 (5")										
	0.440	0.186	0.017	0.017	0.534	0.004	0.006	0.009	0.012	98.775
	0.443	0.182	0.016	0.017	0.530	0.005	0.006	0.010	0.012	98.779
x	0.442	0.184	0.017	0.017	0.532	0.005	0.006	0.010	0.012	98.777
Billet Lot No : 20193 (5")										
	0.426	0.201	0.024	0.018	0.521	0.009	0.007	0.013	0.012	98.766
	0.422	0.196	0.024	0.017	0.525	0.009	0.006	0.013	0.011	98.777
x	0.424	0.199	0.024	0.018	0.523	0.009	0.007	0.013	0.012	98.773
Billet Lot No : 64334 (5")										
	0.439	0.189	0.023	0.017	0.527	0.008	0.008	0.012	0.009	98.768
	0.436	0.185	0.024	0.017	0.524	0.007	0.008	0.011	0.009	98.779
x	0.438	0.187	0.024	0.017	0.526	0.008	0.008	0.012	0.009	98.774

Note :

- 1 Each element is round off to three decimal places.
- 2 Where no value is shown, not more than 0.01% of the element is present.
- 3 Element/s shown to more than two decimal places are in accordance with the composition limit for the alloy specification.
- 4 This is to certify that the above analysis are plant results and are accurate to within commercial limits.