



KALTECH ENGINEERING & REFRIGERATION PTE LTD

9 TUAS LINK 1, SINGAPORE 638587. TEL: +65 6863 3681 FAX: +65 6863 3308

WEBSITE: kaltech.com.sg E-MAIL: kaltech@singnet.com.sg

CERTIFICATE OF ANALYSIS

Buyer: Omodei SRL A.Panizzi 6, 20146 MI, Italy.	Invoice No. & Date: 68638 Dated 08.05.14 Exporter's Ref No.: 140329A Dated 29.03.14 Container No.: MSCU3506405 Quantity: 300 Disposable Cylinders x 13.6 Kgs. Description of goods: Refrigerant Gas R22 Batch No: GL140219 / GL140225
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"Kalton" R22

<u>Characteristics</u>	<u>Standard Spec.</u>	<u>Analysis Result</u>
Odour	No Odour	No Odour
Appearance	Clear & Colourless	Clear & Colourless
Purity	≥ 99.8	99.98
Moisture	≤ 0.002	0.0010
Evaporation Residue	≤ 0.01	0.0007
Acidity (as HCl)	≤ 0.00001	< 0.00001

Issued at Singapore on 08.05.14





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<u>"Kalton" R134a</u>			
<u>Characteristics</u>	<u>Units</u>	<u>Value</u>	<u>Specification</u>
Purity	% (m)	99.93	≥ 99.90
Moisture	% (m/m)	0.0006	≤ 0.0010
Evaporating Residue	% (m/m)	0.0006	≤ 0.01
Acidity as HCl	% (m/m)	< 0.00001	≤ 0.0001
Chloride (content of Cl)	% (m/m)	<0.0003	≤ 0.0003
Non-condensing vapor	% (v/v)	0.49	≤ 1.5
Issued at Singapore on 08.05.14			





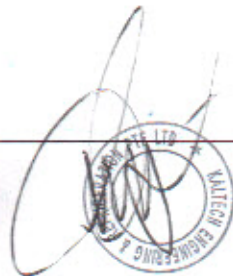
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Buyer: Omodei SRL A.Panizzi 6, 20146 MI, Italy.	Invoice No. & Date: 68638 Dated 08.05.14 Exporter's Ref No.: 140329A Dated 29.03.14 Container No.: MSCU3506405 Quantity: 50 Disposable Cylinders x 11.3 Kgs. Description of goods: Refrigerant Gas R407C Batch No: GL140207	
<u>"Kalton" R407C</u>		
<u>Characteristics</u>	<u>Specification</u>	<u>Result</u>
Purity,%	≥ 99.8	99.9
Moisture, %	≤ 0.001	0.0006
Acidity(as HCl), %	≤ 0.0001	< 0.0001
Residue, %	≤ 0.0001	< 0.0001
Chloride (as Cl),%	PASS	PASS
Non condensable gas	≤ 1.5	0.3
HFC-32, %	21-25	23.2
HFC-125, %	23-27	24.8
HFC-134a,%	50-54	52.0
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<u>"Kalton" R410A</u>			
<u>Characteristics</u>	<u>Units</u>	<u>Value</u>	<u>Specification</u>
HFC-32,	%	49.6	49.5±1
HFC-125	%	50.4	50.5±1
Purity	% (m)	99.9	≥ 99.5
Acidity	%	< 0.0001	≤ 0.0001
Moisture	%	0.0008	≤ 0.001
Non condensable gas	%(V)	0.0006	≤ 0.01
Issued at Singapore on 08.05.14			

