

浙江三美化工股份有限公司
ZHEJIANG SANMEI CHEMICAL IND. CO., LTD.
浙江省武义县青年路胡处
HUCHU, WUYI COUNTY, ZHEJIANG PROVINCE, CHINA
Tel: 0086-579-87649587 Fax: 0086-579-87645878

CERTIFICATE OF ANALYSIS

Sample name: R134A

INVOICE NO: ISMMIX-LSC1921

Sample source: 926L TON CYLINDER

DATE: MARCH 21, 2020

Production Standard: GB/T 18826-2016

S/C NO: SMMIX-LSC1921

Density items	Standard demands	Results
Characteristics	Colorless, transparent, clear and odorless liquid	
Purity%≥	99.90	99.94
Moisture%≤	0.001	0.00078
Acidity(as HCL) %≤	0.0001	<0.0001
Evaporation Residues%≤	0.005	0.0009
Volume fraction of non-condensable of 25C≤	1.5	0.13
Determination of chlorides (Cl-)	PASS	PASS
UNSATURATED ALKENE, PPM ≤	0.0040	0.0005
	Final conclusion: Conformity	
Tester: TANGXINGDONG Checker: WULONGFEI Auditor: XUXIAOYE		

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CERTIFICATE OF ANALYSIS

Sample name: R410A

INVOICE NO: ISMMIX-LSC1921

Sample source: 926L TON CYLINDER

DATE: March 23, 2020

Product standard: CRAA 100-2012

S/C NO: SMMIX-LSC1921

Density items	Standard demands	Results
Appearance	Colorless and no smelling	
R410A%	≥99.5	99.94
Moisture%	≤0.001	0.00081
Allowable Comp HFC-32, % HFC-125, %	49.5±1	49.4
	50.5±1	50.6
Evaporation residue%	≤0.01	0.0009
Acidity (as HCL) %	≤0.0001	<0.0001
Chloride(content of CL-) %	PASS	PASS
Non Condensable Gas %	≤1.5	0.26
Final conclusion: Conformity		
Tester: TANGXINGDONG Checker: GAORONGFU Auditor: XUXIAOYE	浙江三美化工股份有限公司 ZHEJIANG SANMEI CHEMICAL IND. CO., LTD 胡建新	

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CERTIFICATE OF ANALYSIS

Sample name: R410A

INVOICE NO:ISM410A-LSC1921

Sample source:926L TON CYLINDER

DATE:April 07, 2020

Product standard: CRAA 100-2012

S/C NO: SMMIX-LSC1921

Density items	Standard demands	Results
Appearance	Colorless and no smelling	
R410A%	≥ 99.5	99.95
Moisture%	≤ 0.001	0.00081
Allowable Comp HFC-32, % HFC-125,%	49.5 ± 1	49.6
	50.5 ± 1	50.4
Evaporation residue%	≤ 0.01	0.0008
Acidity (as HCL) %	≤ 0.0001	< 0.0001
Chloride(content of CL-) %	PASS	PASS
Non Condensable Gas %	≤ 1.5	0.21
Final conclusion: Conformity		
Tester: TANGXINGDONG Checker: WULONGFEI Auditor: XUXIAOYE	浙江三美化工股份有限公司 ZHEJIANG SANMEI CHEMICAL IND. CO., LTD 胡博新	

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CERTIFICATE OF ANALYSIS

Sample name: R410A

INVOICE NO:ISM410A-LSC1921

Sample source:926L TON CYLINDER

DATE:April 09, 2020

Product standard: CRAA 100-2012

S/C NO: SMMIX-LSC1921

Density items	Standard demands	Results
Appearance	Colorless and no smelling	
R410A%	≥ 99.5	99.95
Moisture%	≤ 0.001	0.00090
Allowable Comp HFC-32, % HFC-125,%	49.5 ± 1	49.5
	50.5 ± 1	50.5
Evaporation residue%	≤ 0.01	0.0008
Acidity (as HCL) %	≤ 0.0001	<0.0001
Chloride(content of CL-) %	PASS	PASS
Non Condensable Gas %	≤ 1.5	0.15
Final conclusion: Conformity		
Tester: TANGXINGDONG Checker: WUHAO Auditor: XUXIAOYE	浙江三美化工股份有限公司 ZHEJIANG SANMEI CHEMICAL IND. CO., LTD 胡博新	