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## U.S. PURCHASERS' QUESTIONNAIRE

### HYDROFLUOROCARBONS BLENDS AND COMPONENTS FROM CHINA

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**This questionnaire must be received by the Commission by April 28, 2016**

*See last page for filing instructions.*

The information called for in this questionnaire is for use by the United States International Trade Commission in connection with its antidumping investigations concerning hydrofluorocarbon blends and components from China (inv. No. 731-TA-1279 (Final)). The information requested in the questionnaire is requested under the authority of the Tariff Act of 1930, title VII. This report is mandatory and failure to reply as directed can result in a subpoena or other order to compel the submission of records or information in your firm's possession (19 U.S.C. § 1333(a)). Further information on this questionnaire can be obtained from Michele Breaux (202-2015-2781, [Michele.breaux@usitc.gov](mailto:Michele.breaux@usitc.gov)).

<b>Name of firm</b> _____
<b>Address</b> _____
<b>City</b> _____ <b>State</b> _____ <b>Zip Code</b> _____
<b>Website</b> _____
Has your firm purchased in-scope HFC blends and/or in-scope HFC components (as defined on next page) from any China at any time since January 1, 2013?
<input type="checkbox"/> <b>NO</b> (Sign the certification below and promptly return <b>only</b> this page of the questionnaire to the Commission)
<input type="checkbox"/> <b>YES</b> (Complete all parts of the questionnaire, and return the entire questionnaire to the Commission)
<b>Return questionnaire via the U.S. International Trade Commission Drop Box by clicking on the following link: <a href="https://dropbox.usitc.gov/oinv/">https://dropbox.usitc.gov/oinv/</a>. (PIN: XXXX)</b>

#### CERTIFICATION

*I certify that the information herein supplied in response to this questionnaire is complete and correct to the best of my knowledge and belief and understand that the information submitted is subject to audit and verification by the Commission.*

*By submitting this certification I also grant consent for the Commission, and its employees and contract personnel, to use the information provided in this questionnaire and throughout this proceeding in any other import-injury proceedings conducted by the Commission on the same or similar merchandise.*

*I, the undersigned, acknowledge that information submitted in response to this request for information and throughout this investigation or other proceeding may be disclosed to and used:*

*(i) by the Commission, its employees and Offices, and contract personnel (a) for developing or maintaining the records of this or a related proceeding, or (b) in internal investigations, audits, reviews, and evaluations relating to the programs, personnel, and operations of the Commission including under 5 U.S.C. Appendix 3; or*

*(ii) by U.S. government employees and contract personnel, solely for cybersecurity purposes. I understand that all contract personnel will sign appropriate nondisclosure agreements.*

\_\_\_\_\_  
**Name of Authorized Official**                      **Title of Authorized Official**                      **Date**

\_\_\_\_\_  
**Signature**    **Phone:** \_\_\_\_\_

\_\_\_\_\_  
**Signature**    **Email address**

\_\_\_\_\_  
**Fax** \_\_\_\_\_

**PART I.—GENERAL INFORMATION**

**Background.**--This proceeding was instituted in response to a petition filed on June 25, 2015, by The American HFC Coalition and its members (Amtrol, Inc., West Warwick, Rhode Island; Arkema, Inc., King of Prussia, Pennsylvania; The Chemours Company FC LLC, Wilmington, Delaware; Honeywell International Inc., Morristown, New Jersey; Hudson Technologies, Pearl River, New York; Mexichem Fluor Inc., St. Gabriel, Louisiana; Worthington Industries, Inc., Columbus, Ohio) and District Lodge 154 of the International Association of Machinists and Aerospace Workers. Antidumping duties may be assessed on the subject imports as a result of this proceeding if the Commission makes an affirmative determination of injury, threat, or material retardation, and if the U.S. Department of Commerce makes an affirmative determination of dumping. Questionnaires and other information pertinent to this proceeding are available at [http://www.usitc.gov/investigations/title\\_7/2016/hydrofluorocarbon\\_blends\\_and\\_components\\_china/final.htm](http://www.usitc.gov/investigations/title_7/2016/hydrofluorocarbon_blends_and_components_china/final.htm).

***Certain hydrofluorocarbon blends and components:*** The products covered by these investigations are: blended hydrofluorocarbons (“HFCs”) and single HFC components of those blends thereof, whether or not imported for blending, including the following:

***HFC components covered by the scope of this investigation:***

**(1) R-32** or “Difluoromethane” has the chemical formula  $\text{CH}_2\text{F}_2$ , and is registered as CAS No. 75-10-5. It may also be known HFC-32, FC-32, Freon-32, Methylene difluoride, Methylene fluoride, Carbon fluoride hydride, halocarbon R32, fluorocarbon R32, and UN 3252.

R-32 is sold under various trade names, including Solkane<sup>®</sup>32, Forane<sup>®</sup>32, and Klea<sup>®</sup>32.

**(2) R-125** or “1,1,1,2,2-Pentafluoroethane” has the chemical formula  $\text{CF}_3\text{CHF}_2$  and is registered as CAS No. 354-33-6. R-125 may also be known as HFC-125, Pentafluoroethane, Freon 125, and Fc-125.

R-125 is sold under various trade names, including Solkane<sup>®</sup>125, Klea<sup>®</sup>125, Genetron<sup>®</sup>125, and Forane<sup>®</sup>125.

**(3) R-143a** or “1,1,1-Trifluoroethane” has the chemical formula  $\text{CF}_3\text{CH}_3$  and is registered as CAS No. 420-46-2. R-143a may also be known as HFC-143a, Methylfluoroform, 1,1,1-Trifluoroform, and UN2035.

R-143a is sold under various trade names, including Solkane<sup>®</sup>143a, Genetron<sup>®</sup>143a, and Forane<sup>®</sup>125.

**HFC blends covered by the scope of this investigation:**

**(1) R-404A:** a zeotropic mixture consisting of 52 percent R-143a, 44 percent by weight R-125, and 4 percent 1,1,1,2-Tetrafluoroethane ("R-134a").

R-404A is sold under various trade names, including Forane® 404A, Genetron® 404A, Solkane® 404A, Klea® 404A, and Suva®404A.

**(2) R-407A:** a zeotropic mixture of 20 percent R-32, 40 percent R-125, and 40 percent R-134a.

R-407A is sold under various trade names, including Forane® 407A, Solkane® 407A, Klea®407A, and Suva®407A.

**(3) R-407C:** a zeotropic mixture of 23 percent R-32, 25 percent R-125, and 52 percent R-134a.

R-407C is sold under various trade names, including Forane® 407C, Genetron® 407C, Solkane® 407C, Klea® 407C and Suva® 407C.

**(4) R-410A:** a zeotropic mixture of 50 percent R-32 and 50 percent R-125.

R-410A is sold under various trade names, including EcoFluor R410, Forane® 410A, Genetron® R410A and AZ-20, Solkane® 410A, Klea® 410A, Suva® 410A, and Puron®.

**(5) R-507A:** an azeotropic mixture of 50 percent R-125 and 50 percent R-143a also known as R-507.

R-507A is sold under various trade names, including Forane® 507, Solkane® 507, Klea®507, Genetron®AZ-50, and Suva®507.

The foregoing percentages are nominal percentages by weight. Actual percentages of single component refrigerants by weight may vary by plus or minus two percent points from the nominal percentage identified above.

**Products excluded from the scope of this investigation:**

Excluded from this investigation are:

(1) Blends of refrigerant chemicals that include products other than HFCs, such as blends including chlorofluorocarbons (CFCs) or hydrochlorofluorocarbons (HCFCs).

**(2) Patented HFC blends, such as ISCEON® blends, including MO99™ (RR-438A), MO79 (R-422A), MO59 (R-417A), MO49Plus™ (R-437A) and MO29™ (R-422D), and Genetron® Performax™ LT (R-407F), Choice® R-421A, and Choice® R-421B.**

(3) HFC component R-134a.

HFC blends included in the scope of this investigation are currently classified in the Harmonized Tariff Schedule of the United States ("HTS") in subheadings 3824.78.0020 and 3824.78.0050.<sup>1</sup> Single component HFCs included in the scope of this investigation are currently classified at subheading 2903.39.2035.<sup>2</sup> Although the HTSUS subheading and CAS registry number are provided for convenience and customs purposes, the written description of the scope is dispositive.

**Practical terminology for products in this questionnaire**

**Components**

- **In-scope HFC components** = three (3) components, R-32, R-125, and R-143a.
- **Out-of-scope HFC component** = one (1) component, R-134a.<sup>3</sup>
- **HFC components** = four (4) components, R-32, R-125, R-143a, and R-134a.

**Blends**

- **In-scope HFC blends** = five (5) blends, R-404A, R-407A, R-407C, R-410A, and R-507A.
- **Out-of-scope refrigerant blends** = any blend that uses at least one in-scope HFC component and is not part of the 5 "in-scope HFC blends" listed above. These include all other refrigerant blends, including HFC, HCFC, and HFO blends. This includes proprietary and patented refrigerant blends. See question V-5 for a list of various out-of-scope refrigerant blends.

**Producer**--If your firm produces HFC components R-32, R-125, R-143a, and R-134a, HFC blends R-404A, R-407A, R-407C, R-410A, and R-507A, you are considered a "producer" in this investigation.

**Reclaimer**--If your firm removes impurities from any in-scope HFC blends (R-404A, R-407A, R-407C, R-410A, and R-507A) through reclaiming, reconstituting, and/or recycling in order to produce the in-scope HFC blends by bringing these blends back to AHRI standards for customers, you must complete a producer questionnaire.

**Repackers**--If your firm has both blending and repacking operations, please report your blending operations only.

**Importer**--Any person or firm engaged, either directly or through a parent company or subsidiary, in importing HFC blends and components (as defined above) into the United States from a foreign manufacturer or through its selling agent.

**Reporting of information**-- If information is not readily available from your records, provide carefully prepared estimates. If your firm is completing more than one questionnaire (i.e., a producer, importer, and/or purchaser questionnaire), you need not respond to duplicated questions.

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<sup>1</sup> Prior to 2016, HFC blends were classified in HTS subheading 3824.78.0000.

<sup>2</sup> Prior to 2016, single component HFCs were classified in HTS subheading 2903.39.2030.

<sup>3</sup> With the exception of questions in sections II-4a and II-4 on your firm's ability to shift from in-scope to out-of-scope components and blends, discussion and data for out-of-scope HFC component refer only to R-134a.

**Confidentiality.**--The commercial and financial data furnished in response to this questionnaire that reveal the individual operations of your firm will be treated as confidential by the Commission to the extent that such data are not otherwise available to the public and will not be disclosed except as may be required by law (see 19 U.S.C. § 1677f). Such confidential information will not be published in a manner that will reveal the individual operations of your firm; however, general characterizations of numerical business proprietary information (such as discussion of trends) will be treated as confidential business information only at the request of the submitter for good cause shown.

**Verification.**-- The information submitted in this questionnaire is subject to audit and verification by the Commission. To facilitate possible verification of data, please keep all files, worksheets, and supporting documents used in the preparation of the questionnaire response. Please also retain a copy of the final document that you submit.

**Release of information.**--The information provided by your firm in response to this questionnaire, as well as any other business proprietary information submitted by your firm to the Commission in connection with this proceeding, may become subject to, and released under, the administrative protective order provisions of the Tariff Act of 1930 (19 U.S.C. § 1677f) and section 207.7 of the Commission's Rules of Practice and Procedure (19 CFR § 207.7). This means that certain lawyers and other authorized individuals may temporarily be given access to the information for use in connection with this proceeding or other import-injury proceedings conducted by the Commission on the same or similar merchandise; those individuals would be subject to severe penalties if the information were divulged to unauthorized individuals.

I-1. **OMB statistics.**--Please report the actual number of hours required and the cost to your firm of completing this questionnaire.

Hours	Dollars

The questions in this questionnaire have been reviewed with market participants to ensure that issues of concern are adequately addressed and that data requests are sufficient, meaningful, and as limited as possible. Public reporting burden for this questionnaire is estimated to average 25 hours per response, including the time for reviewing instructions, gathering data, and completing and reviewing the questionnaire.

We welcome comments regarding the accuracy of this burden estimate, suggestions for reducing the burden, and any suggestions for improving this questionnaire. Please attach such comments to your response or send to the Office of Investigations, USITC, 500 E St. SW, Washington, DC 20436.

I-2. **Establishments covered.**-- Provide the name and address of your U.S. establishment(s) covered by this questionnaire, if different from that listed on the cover page. **Firms operating more than one establishment should combine the data for all establishments into a single report.**

***“Establishment”***-- Each facility of a firm involved in the importation of HFC blends and components, including auxiliary facilities operated in conjunction with (whether or not physically separate from) such facilities.

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I-3. **Ownership.**--Is your firm owned, in whole or in part, by any other firm?

No       Yes--List the following information.

Firm name	Address	Extent of ownership (percent)

I-4. **Related SUBJECT importers/exporters.**-- Does your firm have any related firms, either domestic or foreign, that are engaged in importing HFC blends or HFC components from China into the United States or that are engaged in exporting HFC blends or HFC components from China to the United States?

No       Yes--List the following information.

Firm name	Address	Affiliation

I-5. **Related NONSUBJECT importers/exporters.**--Does your firm have any related firms, either domestic or foreign, which import HFC blends or HFC components from countries other than China into the United States or which export HFC blends or HFC components from countries other than China to the United States?

No       Yes--List the following information.

Firm name and country	Address	Affiliation

I-6. **Related producers.**-- Does your firm have any related firms, either domestic or foreign, that are engaged in the production of HFC blends or HFC components?

No       Yes--List the following information.

Firm name	Address	Affiliation

**PART II.--PURCHASES**

**Contact information.**-- Please identify the responsible individual and the manner by which Commission staff may contact that individual regarding the confidential information submitted in this questionnaire.

Name	
Title	
Email	
Telephone	
Fax	

II-1. **Purchases.**--

(a) Report your firm's total U.S. purchases of in-scope HFC components. (Do not include imports for which your firm was the importer of record; such imports should be reported in your U.S. importer's questionnaire.)

Item	2013	2014	2015
<b>Purchases of in-scope HFC components produced in--</b>	<b>Quantity (in short tons)</b>		
United States			
China			
All other countries: <sup>1</sup>			
Sources unknown			
<sup>1</sup> Please identify these countries:			

(b) Report your firm's total U.S. purchases of in-scope HFC blends. (Do not include imports for which your firm was the importer of record; such imports should be reported in your U.S. importer's questionnaire.)

Item	2013	2014	2015
<b>Purchases of in-scope HFC blends produced in--</b>	<b>Quantity (in short tons)</b>		
United States			
China			
All other countries: <sup>1</sup>			
Sources unknown			
<sup>1</sup> Please identify these countries:			



**II-2. Changes in purchasing patterns.--**

(a) Please indicate how the shares of your firm's purchases of in-scope HFC components from different sources have changed since January 1, 2013.

<b>Source of purchases</b>	<b>Did not purchase</b>	<b>Decreased</b>	<b>Increased</b>	<b>Constant</b>	<b>Fluctuated</b>	<b>Explanation for trend</b>
United States	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
China	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
All other countries	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Sources unknown	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

(a) Please indicate how the shares of your firm's purchases of in-scope HFC blends from different sources have changed since January 1, 2013.

<b>Source of purchases</b>	<b>Did not purchase</b>	<b>Decreased</b>	<b>Increased</b>	<b>Constant</b>	<b>Fluctuated</b>	<b>Explanation for trend</b>
United States	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
China	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
All other countries	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Sources unknown	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

II-3. **Purchases from one country only.**--If your firm has purchased in-scope HFC blends and/or in-scope HFC components from only one country, please explain the reasons for doing so.

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II-4. **Supplier identification.**--Please list your firm's **FIVE** largest suppliers for in-scope HFC blends and/or in-scope HFC components since January 1, 2013. Also, provide the share of the quantity of your firm's total purchases of in-scope HFC blends and/or in-scope HFC components that each of these suppliers accounted for in 2015.

No.	Supplier's name	City and state	Share of quantity of 2015 purchases
1			%
2			%
3			%
4			%
5			%

**PART III.--MARKET CHARACTERISTICS AND PURCHASING PRACTICES**

III-1. **Firm type.**--Which of the following best describes your firm as a purchaser of in-scope HFC blends and/or in-scope HFC components (check all that apply)?

End user (blender)	End user (reclaimer)	Distributor	Other	Describe other
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

*If your firm is a distributor of In-scope HFC blends and/or in-scope HFC components, please answer questions III-2 and III-3.*

III-2. **Competition for sales.**--Does your firm compete for sales to customers with the manufacturers or importers from which your firm purchases within scope HFC blends and/or in-scope HFC components?

No	Yes	If yes, please describe.
<input type="checkbox"/>	<input type="checkbox"/>	

III-3. **Types of customers.**--What are the major types of consumers to which your firm sells in-scope HFC blends and/or in-scope HFC components?

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***If your firm is an end user of in-scope HFC blends and/or in-scope HFC components, please answer questions III-4 and III-5.***

III-4. **End uses.**--List the top 3 products your firm makes using in-scope HFC blends and estimate the percent of your total production cost that is accounted for by in-scope HFC blends and by other inputs (such as labor, energy, and other raw materials).

End use product	Share of total cost of end use product accounted for by		Total (should sum to 100.0% across)
	In-scope HFC blends	Other inputs	
Residential a/c units and heat pumps	%	%	0.0 %
Commercial a/c units	%	%	0.0 %
Commercial refrigeration units	%	%	0.0 %
Transport refrigeration units	%	%	0.0 %
Process refrigeration units	%	%	0.0 %
Other <sup>1</sup>	%	%	0.0 %
<sup>1</sup> Explain the other end uses: _____.			

III-5. **Demand for end use products.--**

(a) **End use demand.**--Has the demand for your firm's final products incorporating in-scope HFC blends and/or in-scope HFC components changed since January 1, 2013?

Market	Overall increase	No change	Overall decrease	Fluctuate with no clear trend	Explanation and factors
<b>In-scope HFC components</b>					
<b>Within the United States</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>Outside the United States</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>In-scope HFC blends</b>					
<b>Within the United States</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>Outside the United States</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

(b) **Subject product demand.**—Have changes in the end use demand had any effect on your firm's demand for in-scope HFC blends and/or in-scope HFC components?

No	Yes	Explain
<input type="checkbox"/>	<input type="checkbox"/>	

III-6. **Substitutes.**—

(a) **Component substitutes.**-- Can other products be substituted for in-scope HFC components?

No  Yes--Please fill out the table.

Substitute	In-scope HFC component replaced	Direct Replacement?		Explain, noting if any changes to equipment are needed.	Have changes in the price of this substitute affected the price for in-scope components?		
		No	Yes		No	Yes	Explanation
1.		<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
2.		<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
3.		<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	

(b) **Blend substitutes.**-- Can other products be substituted for in-scope HFC blends?

No  Yes--Please fill out the table.

Substitute	In-scope HFC blend replaced	Direct Replacement?		Explain, noting if any changes to equipment are needed.	Have changes in the price of this substitute affected the price for in-scope blends?		
		No	Yes		No	Yes	Explanation
1.		<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
2.		<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
3.		<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	

III-7. **Demand trends.**-- Indicate how demand within the United States and outside of the United States (if known) for in-scope HFC blends and/or in-scope HFC components has changed since January 1, 2013. Explain any trends and describe the principal factors that have affected these changes in demand.

Market	Overall increase	No change	Overall decrease	Fluctuate with no clear trend	Explanation and factors
<b>HFC components</b>					
<b>Within the United States</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>Outside the United States</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>HFC blends</b>					
<b>Within the United States</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>Outside the United States</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

III-8. **Importance of purchasing domestic product.**--Please fill out the table below, estimating the percentage of your firm's total 2015 purchases of in-scope HFC blends and/or in-scope HFC components that required in-scope HFC blends and/or in-scope HFC components produced in the United States.

	<b>Estimated percentage of your firm's total 2015 purchases of in-scope HFC blends and/or in-scope HFC components</b>
<b>Purchases that did not require domestic product</b>	%
<b>Purchases that were required by law or regulation to be domestic product</b> (e.g., government purchases under "Buy American" provisions)	%
<b>Purchases that were not required by law or regulation, but were required by your customers to be domestic product</b>	%
<b>Purchases that were required to be domestic product for other reasons</b> (explain: )	%
<b>Total</b> (should sum to 100.0%)	0.0 %

**III-9. Conditions of competition.--**

- (a) Is the market for in-scope HFC blends and/or in-scope HFC components subject to business cycles (other than general economy-wide conditions) and/or other conditions of competition distinctive to in-scope HFC blends and/or in-scope HFC components? If yes, describe.

Check all that apply.	Please describe.
<b>In-scope HFC components</b>	
<input type="checkbox"/> <b>No</b>	
<input type="checkbox"/> <b>Yes-Business cycles (e.g. seasonal business)</b>	
<input type="checkbox"/> <b>Yes-Other distinctive conditions of competition</b>	
<b>In-scope HFC blends</b>	
<input type="checkbox"/> <b>No</b>	
<input type="checkbox"/> <b>Yes-Business cycles (e.g. seasonal business)</b>	
<input type="checkbox"/> <b>Yes-Other distinctive conditions of competition</b>	

- (b) If yes, have there been any changes in the business cycles or conditions of competition for in-scope HFC blends and/or in-scope HFC components since January 1, 2013?

	<b>No</b>	<b>Yes</b>	<b>If yes, describe.</b>
<b>In-scope HFC components</b>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>In-scope HFC blends</b>	<input type="checkbox"/>	<input type="checkbox"/>	



III-10. **Decisions based on producer and country-of-origin.**--How often does your firm, and if known, do your customers, make purchasing decisions involving in-scope HFC blends and/or in-scope HFC components based on its producer or country of origin?

	Always	Usually	Sometimes	Never	If at least sometimes, explain.
<b>Decision based on producer</b>					
Your firm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Your customers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>Decision based on country of origin</b>					
Your firm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Your customers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

III-11. **Availability of supply.**—

(a) **In-scope HFC components.**-- Has the availability of in-scope HFC components in the U.S. market changed since January 1, 2013?

Availability in the U.S. market	No	Yes	Please explain, noting the countries and reasons for the changes.
U.S.-produced product	<input type="checkbox"/>	<input type="checkbox"/>	
Imports from China	<input type="checkbox"/>	<input type="checkbox"/>	
Nonsubject imports	<input type="checkbox"/>	<input type="checkbox"/>	

(b) **In-scope HFC blends.**-- Has the availability of in-scope HFC blends in the U.S. market changed since January 1, 2013?

Availability in the U.S. market	No	Yes	Please explain, noting the countries and reasons for the changes.
U.S.-produced product	<input type="checkbox"/>	<input type="checkbox"/>	
Imports from China	<input type="checkbox"/>	<input type="checkbox"/>	
Nonsubject imports	<input type="checkbox"/>	<input type="checkbox"/>	

III-12. **Supply constraints.**--Has any firm refused, declined, or been unable to supply your firm with in-scope HFC blends and/or in-scope HFC components since January 1, 2013 (examples include placing customers on allocation or "controlled order entry," declining to accept new customers or renew existing customers, delivering less than the quantity promised, been unable to meet timely shipment commitments, etc.)?

	<b>No</b>	<b>Yes</b>	<b>If yes, please describe.</b>
<b>In-scope HFC components</b>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>In-scope HFC blends</b>	<input type="checkbox"/>	<input type="checkbox"/>	

III-13. **Purchasing frequency.**--

(a) How frequently does your firm make purchases of in-scope HFC blends and/or in-scope HFC components (check one)?

<b>Daily</b>	<b>Weekly</b>	<b>Monthly</b>	<b>Quarterly</b>	<b>Annually</b>	<b>Other</b>	<i>If other, specify</i>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

(b) Has this purchasing frequency changed since January 1, 2013?

<b>No</b>	<b>Yes</b>	<b>If yes, please describe.</b>
<input type="checkbox"/>	<input type="checkbox"/>	

III-14. **Number of suppliers contacted.**--How many suppliers does your firm generally contact before making a purchase? Between \_\_\_\_ and \_\_\_\_ firms

III-15. **Supplier negotiations.**--Does your firm's purchases of in-scope HFC blends and/or in-scope HFC components usually involve negotiations between supplier and purchaser?

	<b>No</b>	<b>Yes</b>	<b>If yes, explain the factors your firm generally negotiates and note whether your firm quotes competing prices during negotiations.</b>
<b>In-scope HFC components</b>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>In-scope HFC blends</b>	<input type="checkbox"/>	<input type="checkbox"/>	

III-16. **Change in suppliers.**--Has your firm changed suppliers since January 1, 2013?

No	Yes	If yes, please list the supplier(s), whether the firm was added or dropped, and the reasons for the change.
<input type="checkbox"/>	<input type="checkbox"/>	

III-17. **New suppliers.**--Are you aware of any new suppliers, either foreign or domestic, that have entered the market since January 1, 2013?

No	Yes	If yes, please identify the firms.
<input type="checkbox"/>	<input type="checkbox"/>	

III-18. **Supplier qualification.**--Do you require your suppliers to be or to become certified or qualified to sell in-scope HFC blends and/or in-scope HFC components to your firm?

If yes, provide the following information.

- The number of days to qualify a new supplier.
- A general description of the certification or qualification process. Also, a brief description of the factors that you consider when qualifying a new supplier (*e.g.*, quality of product, reliability of supplier, etc.).

No	Yes	Number of days	Process and factors
<input type="checkbox"/>	<input type="checkbox"/>		

III-19. **Failure to certify.**--Since January 1, 2013, have any domestic or foreign producers failed in their attempts to certify or qualify their in-scope HFC blends and/or in-scope HFC components with your firm or have any producers lost their approved status?

No	Yes	If yes, please identify these firms, the countries where they are located, and the reasons why they failed the certification/qualification.
<input type="checkbox"/>	<input type="checkbox"/>	

III-20. **Major purchasing factors.**—

- (a) **In-scope HFC components.**-- Please list, in order of their importance, the main factors your firm considers in deciding from whom to purchase in-scope HFC components (examples include availability, extension of credit, contracts, price, quality, range of supplier's product line, traditional supplier, etc.).

1.	
2.	
3.	
Please list any other factors that are very important in your purchase decisions:	

- (a) **In-scope HFC blends.**-- Please list, in order of their importance, the main factors your firm considers in deciding from whom to purchase in-scope HFC blends (examples include availability, extension of credit, contracts, price, quality, range of supplier's product line, traditional supplier, etc.).

1.	
2.	
3.	
Please list any other factors that are very important in your purchase decisions:	

III-21. **Purchasing factors.**--Please rate the importance of the following factors in your firm's purchasing decisions for in-scope HFC blends and/or in-scope HFC components.

Factor	Very important	Somewhat important	Not important
Availability	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Delivery terms	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Delivery time	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Discounts offered	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Extension of credit	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Minimum quantity requirements	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Packaging	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Price	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Product consistency	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Product range	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Quality exceeds industry standards	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Quality meets industry standards	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Reliability of supply	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Technical support/service	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
U.S. transportation costs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

III-22. **Quality characteristics.**--What characteristics does your firm consider when determining the quality of their in-scope HFC blends and/or in-scope HFC components?

III-23. **Frequency of decisions based on price.**--How often does your firm purchase the in-scope HFC blends and/or in-scope HFC components that are offered at the lowest price?

Always	Usually	Sometimes	Never
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

III-24. **Price leaders.**— A price leader is defined as (1) one or more firms that initiate a price change, either upward or downward, that is followed by other firms, or (2) one or more firms that have a significant impact on prices. *A price leader is not necessarily the lowest-priced supplier.*

Please list the names of any firms you considered price leaders in the in-scope HFC blends and/or in-scope HFC components market since January 1, 2013.

Firm(s)	Describe how the firm(s) exhibited price leadership

III-25. **Switching to imports.**—

(a) Since January 2013, did your firm switch any of its purchases from U.S.-produced in-scope HFC blends and/or in-scope HFC components to imports of in-scope HFC blends and/or in-scope HFC components from China?

	Yes (also respond to parts (b) and (c))	No (If "No" to both, skip to question III-26)
<b>In-scope HFC components</b>	<input type="checkbox"/>	<input type="checkbox"/>
<b>In-scope HFC blends</b>	<input type="checkbox"/>	<input type="checkbox"/>

(b) If you responded "Yes" to part (a), was the imported product priced lower than the domestic product?

	Yes	No
<b>In-scope HFC components</b>	<input type="checkbox"/>	<input type="checkbox"/>
<b>In-scope HFC blends</b>	<input type="checkbox"/>	<input type="checkbox"/>

(c) If you responded "Yes" to part (a) above, was price a primary reason for the shift?

Source	Yes	If Yes, estimate the quantity of purchases that your firm shifted to imports since January 2013 because of price (in #units)	No	If No, please indicate the reason for the shift
<b>In-scope HFC components</b>	<input type="checkbox"/>		<input type="checkbox"/>	
<b>In-scope HFC blends</b>	<input type="checkbox"/>		<input type="checkbox"/>	

III-26. **U.S. producers and import competition.**—

- (a) Since January 1, 2013, in connection with a sale or offer to sell in-scope HFC blends and/or in-scope HFC components to your firm, did U.S. producers reduce their prices of domestically produced in-scope HFC blends and/or in-scope HFC components in order to compete with lower-priced imports of in-scope HFC blends and/or in-scope HFC components from China?

	Yes (also respond to question part (b))	No (If "No" for both, skip to question III-27)	Don't know
In-scope HFC components	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
In-scope HFC blends	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

- (b) If your firm responded "yes" in-scope HFC blends or in-scope HFC components, please provide an estimate of the reduction in U.S. producers' prices, and any additional explanations, such as timing (e.g., months/years), frequency of price reductions, or other market/competitive factors.

	Estimated reduction in U.S. prices (percent)	Additional explanation, including such information as timing (e.g., months/years), frequency of price reductions, or other market/competitive factors
In-scope HFC components	%	
In-scope HFC blends	%	

- III-27. **Patents.**— Do patents and/or licensing for patents influence the price of in-scope HFC blends?

No	Yes	If yes, please describe.
<input type="checkbox"/>	<input type="checkbox"/>	

- III-28. **Raw materials.**— Does the price of raw materials have an effect on the contract or spot prices of in-scope HFC blends and/or components?

No effect	Yes			Explain.
	HFC prices indexed to raw material prices	HFC prices have raw material surcharge	Other	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

**PART IV.—PRODUCT COMPARISONS**

IV-1. **Country knowledge.**--Please indicate the countries of origin for in-scope HFC blends and/or in-scope HFC components for which your firm has actual marketing/pricing knowledge.

United States	China	Other countries	Other countries (specify)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

IV-2. **Interchangeability.**--Are in-scope HFC blends and/or in-scope HFC components produced in the United States and in other countries interchangeable (*i.e.*, can they physically be used in the same applications)?

Please indicate A, F, S, N, or O in the table below:

- A = the products from a specified country-pair are *always* interchangeable
- F = the products are *frequently* interchangeable
- S = the products are *sometimes* interchangeable
- N = the products are *never* interchangeable
- O = *no familiarity* with products from a specified country-pair

Country-pair <sup>1</sup>		In-scope HFC components		In-scope HFC blends	
		China	Other Countries	China	Other Countries
In-scope HFC components	United States			X	
	China	X			
In-scope HFC blends	United States	X			
	China			X	

<sup>1</sup> Country comparisons between products of the United States, China, and other countries should be made on a component by component or blend by blend basis.

For any country-pair producing In-scope HFC blends and/or in-scope HFC components that is *sometimes* or *never* interchangeable, identify the country-pair and explain the factors that limit or preclude interchangeable use:



IV-3. **Factors other than price.**--Are differences other than price (*e.g.*, quality, availability, transportation network, product range, technical support, *etc.*) between in-scope HFC blends and/or in-scope HFC components produced in the United States and in other countries a significant factor in your firm's sales of the products?

Please indicate A, F, S, N, or O in the table below:

- A = such differences are *always* significant
- F = such differences are *frequently* significant
- S = such differences are *sometimes* significant
- N = such differences are *never* significant
- O = *no familiarity* with products from a specified country-pair

Country-pair <sup>1</sup>		In-scope HFC components		In-scope HFC blends	
		China	Other Countries	China	Other Countries
In-scope HFC components	United States			X	
	China	X			
In-scope HFC blends	United States	X			
	China			X	

<sup>1</sup> Country comparisons between products of the United States, China, and other countries should be made on a component by component or blend by blend basis.

For any country-pair for which factors other than price *always* or *frequently* are a significant factor in your firm's sales of in-scope HFC blends and/or in-scope HFC components, identify the country-pair and report the advantages or disadvantages imparted by such factors:

IV-4. **Country preferences.**--Do you or your customers ever specifically order in-scope HFC blends and/or in-scope HFC components from one country in particular over other possible sources of supply?

No	Yes	If yes, identify the countries and explain.
<input type="checkbox"/>	<input type="checkbox"/>	

IV-5. **Availability of merchandise.**--Are certain grades/types/sizes of in-scope HFC blends and/or in-scope HFC components only available from certain country sources?

	No	Yes	If yes, please identify the countries and the grade/type/size.
<b>In-scope HFC components</b>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>In-scope HFC blends</b>	<input type="checkbox"/>	<input type="checkbox"/>	

IV-6. **Choice of product not based on price.**--If you purchased in-scope HFC blends and/or in-scope HFC components from one country source although a comparable product was available from another country source at a lower price, please explain your reasons for doing so (please specify by country).

--

IV-7. **Factor country comparisons.**--For the factors listed below, please rate how in-scope HFC blends and/or in-scope HFC components produced in each country you identified in your response to the first question in Part IV compares with in-scope HFC blends and/or in-scope HFC components produced in each of the other countries you identified

***If you are unfamiliar with the product from a particular country, please leave the boxes for those country comparisons blank.***

Factor	Product from <u>United States</u> compared to product from <u>China</u>			Product from <u>United States</u> compared to product from <u>Nonsubject</u>			Product from <u>China</u> compared to product from <u>Nonsubject</u>		
	Superior	Comparable	Inferior	Superior	Comparable	Inferior	Superior	Comparable	Inferior
Availability	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Delivery terms	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Delivery time	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Discounts offered	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Extension of credit	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Minimum quantity requirements	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Packaging	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Price <sup>1</sup>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Product consistency	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Product range	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Quality exceeds industry standards	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Quality meets industry standards	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Reliability of supply	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Technical support/service	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
U.S. transportation costs <sup>1</sup>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<sup>1</sup> A rating of superior on price and U.S. transportation costs indicates that the first country generally has lower prices/U.S. transportation costs than the second country.									

IV-8. **Minimum quality.**--How often does in-scope HFC blends and/or in-scope HFC components from the following countries meet minimum quality specifications for your uses or your customers' uses?

Source	Always	Usually	Sometimes	Rarely or never	Don't know
<b>United States</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>China</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Other:</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

IV-9. **Other explanations.**--If your firm would like to further explain a response to any question that did not provide a narrative response box, please note the question number and the explanation in the space provided below.

**PART V.—ADDITIONAL PRODUCT INFORMATION**

V-1. **Semi-finished analysis.**--For each of the following individual HFC components, provide the requested assessments. If you do not have the knowledge to be able to respond this question, please leave it blank.

- (a) **Uses in addition to in-scope HFC blend production.**--Indicate whether each individual HFC component is dedicated to the production of in-scope blends or has uses in addition to the production of downstream in-scope HFC blends. If there are uses for an individual HFC component other than for the production of in-scope HFC blends, please list these other uses. If any in-scope HFC component can be sold as an individual component, provide that information in the explanation section of the table below.

HFC component	No.--Dedicated	Yes.--Other uses	Explanation (if yes).--Describe the other uses
R-32	<input type="checkbox"/>	<input type="checkbox"/>	_____ _____
R-125	<input type="checkbox"/>	<input type="checkbox"/>	_____ _____
R-143a	<input type="checkbox"/>	<input type="checkbox"/>	_____ _____
R-134a (out-of-scope)	<input type="checkbox"/>	<input type="checkbox"/>	_____ _____

- (b) **Differences in markets.**--Are the markets for HFC components, to the degree that the individual HFC components are sold commercially, separate and/or distinct from the market(s) for the downstream **in-scope HFC blends**? If there are differences in the markets, please describe them in the space provided. (If there are no markets for the individual HFC component, leave blank).

HFC component	No.--Similar market(s)	Yes.--Separate/distinct market(s)	Explanation (if yes).--Describe the differences
R-32	<input type="checkbox"/>	<input type="checkbox"/>	_____ _____
R-125	<input type="checkbox"/>	<input type="checkbox"/>	_____ _____
R-143a	<input type="checkbox"/>	<input type="checkbox"/>	_____ _____
R-134a (out-of-scope)	<input type="checkbox"/>	<input type="checkbox"/>	_____ _____

V-1. **Semi-finished analysis.**--Continued

(c) **Similar physical characteristics and functions.**--Are there distinct physical characteristics and functions of HFC components from **in-scope HFC blends**?

HFC component	No.— Similar	Yes.— Distinct	Explanation (if yes).—Describe the distinct physical characteristics and functions
R-32	<input type="checkbox"/>	<input type="checkbox"/>	_____ _____
R-125	<input type="checkbox"/>	<input type="checkbox"/>	_____ _____
R-143a	<input type="checkbox"/>	<input type="checkbox"/>	_____ _____
R-134a (out-of-scope)	<input type="checkbox"/>	<input type="checkbox"/>	_____ _____

(d) **Differences in price or value.**--Are there differences in the price for or value of the individual HFC components and the downstream **in-scope HFC blends**?

HFC component	No.— Similar price/value	Yes.— Divergent price/value	Explanation (if yes).—Describe the differences in and drivers of price/value
R-32	<input type="checkbox"/>	<input type="checkbox"/>	_____ _____
R-125	<input type="checkbox"/>	<input type="checkbox"/>	_____ _____
R-143a	<input type="checkbox"/>	<input type="checkbox"/>	_____ _____
R-134a (out-of-scope)	<input type="checkbox"/>	<input type="checkbox"/>	_____ _____

V-1. **Semi-finished analysis.**—*Continued*

(e) **Extensive process to convert to in-scope HFC blend.**--Is the process to create a in-scope HFC blend from the individual HFC component extensive and/or complicated?

HFC component	No.— Simple	Yes.— Extensive/ complicated	Explanation (if yes).—Describe the complexities of creating a in-scope HFC blend
R-32	<input type="checkbox"/>	<input type="checkbox"/>	_____ _____
R-125	<input type="checkbox"/>	<input type="checkbox"/>	_____ _____
R-143a	<input type="checkbox"/>	<input type="checkbox"/>	_____ _____
R-134a (out-of-scope)	<input type="checkbox"/>	<input type="checkbox"/>	_____ _____

V-2. **Comparability of in-scope HFC blends vs out-of-scope refrigerant blends.**--For each of the following indicate whether in-scope HFC blends and out-of-scope refrigerant blends are: fully comparable or the same, *i.e.*, have no differentiation between them; mostly comparable or similar; somewhat comparable or similar; never or not-at-all comparable or similar; or no familiarity with products. If there are differences between individual in-scope HFC blends and individual out-of-scope refrigerant blends please provide that information in the narrative fields.

(a) **Characteristics and Uses.**—How comparable are in-scope HFC blends and out-of-scope refrigerant blends in physical characteristics and end uses?

Fully comparable	Mostly comparable	Somewhat comparable	Not at all comparable	NA/no familiarity
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please provide a narrative discussion for the comparability ratings you provided in terms of their characteristics and uses:

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(b) **Interchangeability.**--How substitutable are **in-scope HFC blends and out-of-scope refrigerant blends** in the same application?

Fully interchangeable	Mostly interchangeable	Somewhat interchangeable	Not at all interchangeable	NA/no familiarity
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please provide a narrative discussion for the comparability ratings you provided in terms of their interchangeability:

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V-2. **Comparability of in-scope HFC blends vs out-of-scope refrigerant blends.**--Continued

(c) **Manufacturing facilities, production processes, and production employees.**--Are **in-scope HFC blends and out-of-scope refrigerant blends** manufactured using the same facilities, the same inputs, the same machinery and equipment, and the same employees?

Fully the same	Mostly the same	Somewhat the same	Not at all the same	NA/no familiarity
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please provide a narrative discussion for the comparability ratings you provided in terms of their manufacturing processes:

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(d) **Channels of distribution.**--Compare the channels of distribution/market situation through which **in-scope HFC blends and out-of-scope refrigerant blends** are sold (i.e., sold direct to end users, through distributors, etc.).

Fully comparable	Mostly comparable	Somewhat comparable	Not at all comparable	NA/no familiarity
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please provide a narrative discussion for the comparability ratings you provided in terms of their channels of distribution:

---



---

V-2. **Comparability of in-scope HFC blends vs out-of-scope refrigerant blends.**--Continued

(e) **Customer and producer perceptions.**--How do customers and producers view the comparability of **in-scope HFC blends and out-of-scope refrigerant blends** in the market (e.g., sales/marketing practices/end uses)?

Fully comparable	Mostly comparable	Somewhat comparable	Not at all comparable	NA/no familiarity
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please provide a narrative discussion for the comparability ratings you provided in terms of their customer and producer perceptions:

---



---

(f) **Price.**--Are prices comparable or different for **in-scope HFC blends and out-of-scope refrigerant blends**?

Fully comparable	Mostly comparable	Somewhat comparable	Not at all comparable	NA/no familiarity
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please provide a narrative discussion for the comparability ratings you provided in terms of their prices:

---



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## HOW TO FILE YOUR QUESTIONNAIRE RESPONSE

This questionnaire is available as a “fillable” form in MS Word format on the Commission’s website at:

[http://www.usitc.gov/investigations/title\\_7/2016/hydrofluorocarbon\\_blends\\_and\\_components\\_china/final.htm](http://www.usitc.gov/investigations/title_7/2016/hydrofluorocarbon_blends_and_components_china/final.htm)

***Please do not attempt to modify the format or permissions of the questionnaire document.*** Please submit the completed questionnaire using one of the methods noted below. If your firm is unable to complete the MS Word questionnaire or cannot use one of the electronic methods of submission, please contact the Commission for further instructions.

- **Upload via Secure Drop Box.**—Upload the MS Word questionnaire along with a scanned copy of the signed certification page (page 1) through the Commission’s secure upload facility:

**Web address:** <https://dropbox.usitc.gov/oinv/>      **Pin:** 1279

- **E-mail.**—E-mail the MS Word questionnaire to [michele.breaux@usitc.gov](mailto:michele.breaux@usitc.gov); include a scanned copy of the signed certification page (page 1). *Submitters are strongly encouraged to encrypt nonpublic documents that are electronically transmitted to the Commission to protect your sensitive information from unauthorized disclosure. The USITC secure drop-box system and the Electronic Document Information System (EDIS) use Federal Information Processing Standards (FIPS) 140-2 cryptographic algorithms to encrypt data in transit. Submitting your nonpublic documents by a means that does not use these encryption algorithms (such as by email) may subject your firm’s nonpublic information to unauthorized disclosure during transmission. If you choose a non-encrypted method of electronic transmission, the Commission warns you that the risk of such possible unauthorized disclosure is assumed by you and not by the Commission.*

**If your firm does not purchase this product,** please fill out page 1, print, sign, and submit a scanned copy to the Commission.

***Parties to this proceeding.***—If your firm is a party to this proceeding, it is required to serve a copy of the completed questionnaire on parties to the proceeding that are subject to administrative protective order (see 19 CFR § 207.7). A list of such parties may be obtained from the Commission’s Secretary (202-205-1803). A certificate of service must accompany the completed questionnaire your firm submits (see 19 CFR § 207.7). Service of the questionnaire must be made in paper form.