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# U.S. Department of Transportation Special Permits for Shipping A2L Refrigerants and Equipment

	Special Permit DOT-SP 21287	Special Permit DOT-SP-21379	Special Permit DOT-SP-21513
<b>Equipment Type</b>	New Air Conditioners and Components (unused)	New Air Conditioners and Components (unused)	Cylinders
<b>Applicable Refrigerant Charge</b>	Unit Refrigerant Charge >12 kg (26 lbs.) and ≤20 kg (44 lbs.)	Total Charge ≤5,000 lbs. (2268 kg) or units with 2 or more charge vessels <2000 lbs. (907 kg)	<ol style="list-style-type: none"> <li>1. The working pressure may not exceed 500 psig</li> <li>2. Water capacity of each cylinder may not exceed 57 kg (125 lbs.)</li> </ol>
<b>Original Permit Grantee</b>	Daikin	Trane	Chemours
<b>Special Permit Regulatory System</b>	49 CFR Parts 106, 107, and 171-180	49 CFR Parts 106, 107, and 171-180	49 CFR 107.601 – 49 CFR 173.301(f)(2) and 177.840(a)(1)
<b>Original Permit Grantee Approval Dates</b>	7/31/2023 to 7/31/2027	6/30/2023 to 6/30/2027	8/10/2023 to 7/31/2025
<b>Exempted Regulations</b>	Can be shipped using 49 CFR § 173.307(a)(4)(iv)	Can be shipped using 49 CFR § 173.306(e)(1)	49 CFR § 173.301(f)(2) and 177.840(a)(1)
<b>Transport Modes</b>	Motor vehicle and rail freight authorized. Cargo vessel is not authorized. No air transport.	Motor vehicle and rail freight authorized. Cargo vessel is not authorized. No air transport.	Motor vehicle only. No air transport.

Please note that the table above is for informational purposes only. Always check with federal, state, and local authorities regarding shipping requirements. The special permits include additional requirements that must be reviewed and complied with in full. This material is not intended to constitute legal advice or be relied upon for compliance purposes.

For more information, visit [www.saferefrigeranttransition.org](http://www.saferefrigeranttransition.org).

## The 2024 model codes have been updated to reflect the mild flammability of A2L refrigerants.

A2L refrigerants are considered Class 1B (low burning velocity) flammable gases. The United States Department of Transportation (DOT) has granted AHRI member companies special permits to allow for the shipping of A2L refrigerants and equipment. Details of these special permits are shown in the table in this flyer.

The full text of these special permits can be found at [www.phmsa.dot.gov](http://www.phmsa.dot.gov).

## Materials of Trade

DOT states that “materials of trade (MOT) are a certain category of hazmat which, when transported in small quantities as part of a business, are subject to fewer Hazardous Materials Regulations (HMR) requirements due to the limited hazards they pose.”\* “Note that the total weight of all hazardous materials and its packaging loaded on a single vehicle may not exceed 200 kg (440 lbs.)”\*\* For more information, please visit [www.phmsa.dot.gov](http://www.phmsa.dot.gov).

### Q: Do the special permits apply to all companies?

**A: No!** A company must apply to become party to a special permit to ship materials in accordance with that special permit.

### Q: Can any company apply to become party to a special permit?

**A: Yes!** According to DOT, “any person eligible to apply for a special permit may apply to be a party to an application or an existing special permit, other than a manufacturing special permit.”\*\*

## Please Note:

- DOT special permits only apply to shipping within the United States.
- The special permits state “a person who is not a holder of this special permit may reoffer it for transportation provided no modification or change is made to the package and it is reoffered for transportation in conformance with this special permit and the Hazardous Materials Regulations (HMR).”\*\*\*
- The special permits state “a current copy of this special permit must be maintained at each facility where the package is offered or reoffered for transportation.”\*\*\*

\**Understanding Materials of Trade (MOTs)*. U.S. Department of Transportation

\*\*49 CFR 107.107

\*\*\*Special Permit DOT-SP 21287, DOT-SP 21379, DOT-SP 21513

## How to Become a Party to a Special Permit:

1. Complete a submission form.  
A sample submission form is available at [www.phmsa.dot.gov](http://www.phmsa.dot.gov).
2. Submit the completed form to DOT at [specialpermits@dot.gov](mailto:specialpermits@dot.gov).

### Don't forget to renew special permits!

A company that is party to a DOT special permit must submit a request to renew the special permit **no less than 60 days before expiration!** Doing so ensures that the special permit will not expire until final administrative action on the application for renewal has been taken.

## AHRI is Here to Help!

If you have any questions about DOT special permits or becoming a party to an existing special permit, please contact Tom Deary at [tdeary@ahrinet.org](mailto:tdeary@ahrinet.org).

For more information on A2L refrigerants, including regulatory information, fact sheets, and webinars, please visit [www.saferefrigeranttransition.org](http://www.saferefrigeranttransition.org).



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