

November 7, 2006



U.S. Department  
of Transportation

400 Seventh Street, S.W.  
Washington, D.C. 20590

**Pipeline and Hazardous  
Materials Safety Administration**

DOT-SP 11481  
(NINTH REVISION)

EXPIRATION DATE: September 30, 2010

(FOR RENEWAL, SEE 49 CFR § 107.109)

1. GRANTEE: ITT Corporation  
(Former Grantee: ITT Industries, Inc.)  
Hebron, Kentucky
2. PURPOSE AND LIMITATIONS:
  - a. This special permit authorizes the manufacture, mark, and sale of certain shock absorbers and struts containing a nonflammable gas, for transportation in commerce as accumulators, not subject to the Hazardous Materials Regulations (HMR) except as provided in this special permit.
  - b. SPECIAL PERMIT SCOPE LIMITATIONS - A special permit authorization to manufacture, mark, sell, and transport only represents certification of safety for a package when it is an article of commerce in transportation. The safety analyses performed in development of this special permit only considered the hazards and risks associated with transportation in commerce. The safety analyses did not consider the hazards and risks associated with consumer use, use as a component of a transport vehicle or other device, or other uses not associated with transportation in commerce.
3. REGULATORY SYSTEM AFFECTED: 49 CFR Parts 106, 107, and 171-180.
4. REGULATIONS FROM WHICH EXEMPTED: 49 CFR Parts 171 - 180, except as provided in this special permit.

5. BASIS: This special permit is based on ITT Corporation's application dated October 24, 2006, submitted in accordance with § 107.109.
6. HAZARDOUS MATERIALS (49 CFR § 172.101):

Proper Shipping Name/ Hazardous Materials Description --	Hazard Class/ Division	Idenifi- cation Number	Packing Group
Articles, pressurized, pneumatic or hydraulic (containing non-flammable, non- liquefied gas).	2.2	UN3164	N/A

7. SAFETY CONTROL MEASURES:

a. PACKAGING -

(1) Prescribed packaging is a shock absorber or strut considered as an "accumulator" as defined in the Hazardous Materials Regulations (HMR) § 173.306(f). Accumulators authorized under this special permit, when conforming to the following and other provisions of this special permit, are not otherwise subject to Subchapter C of the HMR.

(i) Each accumulator charged with non-liquefied, non-flammable gas may not have a gas space exceeding 0.50 liters (30.50 cubic inches).

(ii) Each accumulator must be designed for a minimum burst pressure not less than 5 times the charge pressure at 21.1°C (69.8°F). However, cartridges with a gas space less than 0.118 liters (7.22 cubic inches) may be designed for a burst pressure not less than 4 times the charge pressure at 21.1°C (69.8°F). The charge pressure for any accumulator may not exceed 40 bars (580 psig) at 21.1°C (69.8°F). Each accumulator must be fabricated from a material which will not fragment upon rupture.

(iii) Each accumulator design type must be such that when subjected to fire, the internal pressure must be relieved by means of fire degradable seal, or a pressure relief device, in order to prevent accumulator rupture.

(iv) Each accumulator covered by this special permit must be manufactured under a written quality assurance program which monitors parameters controlling burst strength, burst mode and performance in a fire situation. A copy of the quality assurance program must be maintained at each facility at which each accumulator is manufactured, and must be made available to a DOT representative upon request.

(2) Each accumulator must be shipped as an inside packaging. Accumulators may be shipped unitized in cages, carts, boxes or similar overpacks when offered for transportation, or transported, by a private or contract motor carrier or a common carrier under exclusive use for such service, from a manufacturer to a distribution center, from a manufacturer or distribution center to a retail outlet, or return. When shipped as described above, accumulators must be packed in strong outside packagings and each package may not exceed 30 kg (66 pounds) gross weight.

b. TESTING -

(1) Design Type: A design type is defined as that representing accumulators with the same charge pressure, size, configuration, material of construction and finishing process. Design qualification test results must be maintained at each manufacturing facility and must be made available to a DOT representative upon request.

(2) Each design type must be qualified as follows:

(i) At least three accumulators for each design type must be hydrostatically pressurized to failure. The pressure at failure must exceed the minimum burst

pressure specified in paragraph 7a(1)(ii) above. The observed failure mode may not be by fragmentation.

(ii) At least one accumulator for each design type must be subjected to a fire test in accordance with the Compressed Gas Association pamphlet CGA C-14. The test results must demonstrate that the pressure retention seals, and pressure relief devices, if any, are capable of preventing rupture of normally charged accumulators in a fire situation.

8. SPECIAL PROVISIONS.

a. In accordance with the provisions of Paragraph (b) of § 173.22a, persons may use the packaging authorized by this special permit for the transportation of the hazardous materials specified in paragraph 6, only in conformance with the terms of this special permit.

b. A person who is not a holder of this special permit, but receives a package covered by this special permit, may reoffer it for transportation provided no modifications or changes are made to the package and it is offered for transportation in conformance with this special permit and the HMR.

c. A current copy of this special permit must be maintained at each facility where the package is offered or reoffered for transportation.

d. Each packaging manufactured under the authority of this special permit must be either (1) marked with the name of the manufacturer and location (city and state) of the facility at which it is manufactured or (2) marked with a registration symbol designated by the Office of Hazardous Materials Special Permits and Approvals for a specific manufacturing facility.

e. A current copy of this special permit must be maintained at each facility where the package is manufactured under this special permit. It must be made available to a DOT representative upon request.

f. MARKING - The marking requirements of § 172.203(a) and § 172.301(c) are waived.

**November 7, 2006**

9. MODES OF TRANSPORTATION AUTHORIZED: Motor vehicle, rail freight, and cargo aircraft only, passenger aircraft and cargo vessel.
10. MODAL REQUIREMENTS: No modal-specific requirements apply to this special permit.
11. COMPLIANCE: Failure by a person to comply with any of the following may result in suspension or revocation of this special permit and penalties prescribed by the Federal hazardous materials transportation law 49 U.S.C. 5101 et seq.:
  - o All terms and conditions prescribed in this special permit and the Hazardous Materials Regulations, 49 CFR Parts 171-180.
  - o Persons operating under the terms of this special permit must comply with the security plan requirement in Subpart I of Part 172 of the HMR, when applicable.
  - o Registration required by § 107.601 et seq., when applicable.

Each "Hazmat employee", as defined in § 171.8 who performs a function subject this special permit must receive training on the requirements and conditions of this special permit in addition to the training required by §§ 172.700 through 172.704.

No person may use or apply this special permit, including display of its number, when the special permit has expired or it is otherwise not longer in effect.

Under Title VII of the Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users (SAFETEA-LU)- 'The Hazardous Materials Safety and Security Reauthorization Act of 2005' (Pub. L. 109-59), 119 Stat. 1144 (August 10, 2005), amended the Federal hazardous materials transportation law by changing the term 'exemption' to 'special permit' and authorizes a special permit to be granted up to two years for new special permits and up to four years for renewals.

**November 7, 2006**

12. REPORTING REQUIREMENTS: Shipments or operations conducted under this special permit are subject to the Hazardous Materials Incident Reporting requirements specified in 49 CFR §§ 171.15 - Immediate notice of certain hazardous materials incidents, and 171.16 - Detailed hazardous materials incident reports. In addition, the grantee(s) of this special permit must notify the Associate Administrator for Hazardous Materials Safety, in writing, of any incident involving a package, shipment or operation conducted under terms of this special permit.

Issued in Washington, D.C.:



for Robert A. McGuire  
Associate Administrator  
for Hazardous Materials Safety

Address all inquiries to: Associate Administrator for Hazardous Materials Safety, Pipeline and Hazardous Materials Safety Administration, Department of Transportation, Washington, D.C. 20590. Attention: PHH-31.

Copies of this special permit may be obtained by accessing the Hazardous Materials Safety Homepage at [http://hazmat.dot.gov/sp\\_app/special\\_permits/spec\\_perm\\_index.htm](http://hazmat.dot.gov/sp_app/special_permits/spec_perm_index.htm) Photo reproductions and legible reductions of this special permit are permitted. Any alteration of this special permit is prohibited.

PO: sln