

TEXAS DEPARTMENT OF TRANSPORTATION
GENERAL SERVICES DIVISION

SPECIFICATION NO.
TxDOT 192-55-78*
REVISED: DRAFT

RELEASE AGENT, ASPHALT, WATER SOLUBLE, CONTAINS
NO SOLVENTS OR PETROLEUM HYDROCARBONS

PUBLICATION

This specification is a product of the Texas Department of Transportation (TxDOT). It is the practice of TxDOT to support other entities by making this specification available through the National Institute of Governmental Purchasers (NIGP). This specification may not be sold for profit or monetary gain. If this specification is altered in any way, the header, and any and all references to TxDOT must be removed. TxDOT does not assume nor accept any liability when this specification is used in the procurement process by any other entity.

PART I

GENERAL CLAUSES AND CONDITIONS

1. The cleaner furnished under this specification shall be the latest improved ingredients or formulation in current production, as offered to commercial trade, and shall conform in strength and quality. The respondent represents that all cleaners offered under this specification shall be new product. USED, DEMONSTRATOR, PROTOTYPE, DISCONTINUED, OR OUTDATED PRODUCT ARE NOT ACCEPTABLE.
2. Respondent should submit with the solicitation or have on file with TxDOT, Austin, Texas, the latest printed literature and detailed specifications on cleaner the respondent proposes to furnish. This literature is for informational purposes only.
3. All packaging and containers not specifically mentioned which are necessary for the cleaner to be complete and ready for use or which are normally furnished as standard packaging shall be furnished by the vendor. All product, containers and packaging shall conform in strength, quality and workmanship to the accepted standards of the industry.
4. The ingredients or formulation provided shall meet or exceed all federal and state of Texas safety and health, regulations and standards in effect and applicable to cleaner furnished at the time of manufacture.
5. It is the intent of TxDOT to purchase goods, equipment and services having the least adverse environmental impact, within the constraints of statutory purchasing requirements, TxDOT need, availability, and sound economical considerations. Suggested changes and environmental enhancements for possible inclusion in future revisions of this specification are encouraged.

* This Specification Supersedes Specification No. 192-55-78, Revised April 2007.

6. TxDOT encourages all manufacturers to comply voluntarily with the Society of Automotive Engineers (SAE) Recommended Practice for marking of plastic parts per current SAE J1344. All plastic components furnished to this specification should have an imprinted SAE symbol identifying the resin composition of the component so that the item can be recycled after its useful life. Manufacturers are encouraged to use recycled plastics and materials in the manufacture of their products in order to conserve natural resources, energy and landfill space. Respondents should note that future specification revisions may require mandatory compliance with the SAE plastic coding system.
7. TxDOT is committed to procuring quality goods and equipment. We encourage manufacturers to adopt the International Organization for Standardization (ISO) 9001-9003 standards, technically equivalent to the American National Standards Institute/American Society for Quality Control (ANSI/ASQC Q91-93 1987), and obtain certification. Adopting and implementing these standards is considered beneficial to the manufacturer, TxDOT, and the environment. It is TxDOT's position that the total quality management concepts contained within these standards can result in reduced production costs, higher quality products, and more efficient use of energy and natural resources. Manufacturers should note that future revisions to this specification may require ISO certification.

PART II

SPECIFICATIONS

1. SCOPE

1.1. This specification establishes the requirements for an asphalt release agent meeting TxDOT Departmental Materials Specification (DMS) DMS-6410 Asphalt Release Agents available at <http://www.txdot.gov/business/resources/dms.html>. Agent to be used to minimize the susceptibility of bituminous paving mixtures (asphalt) to adhere to truck beds and all other paving equipment. The asphalt release agent will be sprayed on truck beds and all other equipment at the recommended dilution rate prior to contact with the asphalt.

1.2. The release agent shall be non-carcinogenic, environmentally safe, water soluble, and contain no solvents or petroleum hydrocarbons.

2. MATERIAL PRODUCER LIST: TxDOT intends to use only a release agent that is suitable for both truck beds and all other equipment for ease in operations. Release agent to be furnished with this specification must have been tested by the TxDOT Laboratory and shown on the published approved material producer list. The TxDOT approved material producer list can be found at: <http://www.txdot.gov>, click on business, materials information, select material producer list and scroll down to asphalt release agents.

Only products listed as both "approved for truck beds and all other paving equipment" are suitable for use under this specification. Products listed as "approved for truck beds only" are not suitable for use under this specification.

NOTE: A respondent who wishes to have other products considered for future purchases should follow the information and submittal procedures and testing cycles available at WWW.ntpep.org. Department evaluations may be requested once the NTPEP testing cycle is complete.

3. SAFETY AND ENVIRONMENT REQUIREMENTS: The release agent shall be labeled in accordance with Title 29 Code of Federal Regulations Hazard Communication.

3.1. The release agent shall contain no component listed in the Resource Conservation and Recovery Act (RCRA) Hazardous Waste Code of Federal Regulations (CFR), Title 40, Part 261, Subpart D, List of Hazardous Waste and shall contain no polychlorinated biphenyls (PCB's).

- 3.2. The release agent shall have a rating no higher than zero for all National Fire Protection Association (NFPA) Hazard Codes. If using the hazardous materials identification system (HMIS), a rating no higher than one is acceptable for Health and a zero is required for both Flammability and Reactivity codes. Any change in release agent ingredients or formulation shall require re-testing under all portions of this specification.
- 3.3. With any shipment to a TxDOT location, the manufacturer of the cleaner shall include the following:
 - 3.3.1. A Materials Safety Data Sheet (MSDS) for the release agent.
 - 3.3.2. A certification from the manufacturer, signed by an authorized company official, stating that the release agent formulation supplied conforms to that tested by TxDOT. Any change in release agent formulation shall require re-testing by the independent analytical laboratory and TxDOT.
- 4. PHYSICAL REQUIREMENTS:
 - 4.1. The release agent shall not breakdown asphaltic concrete and shall not leave hazardous waste residue.
 - 4.2. Products that contain flammable materials, solvents, or petroleum elements are not acceptable.
 - 4.3. The release agent shall have a minimum flash point of 400°F (204°C).
- 5. MATERIAL TESTING REQUIREMENT: ARA must meet the requirements of Table 1. All testing will be in accordance with the NTPEP work plan for ARA.

Asphalt Release Agent Properties

TEST	TEST METHOD
7-Day Asphalt Stripping Test <ul style="list-style-type: none"> • Diluted • Full Strength 	<ul style="list-style-type: none"> • No Stripping • No Stripping
Mixture Slide Test	10 g retained, max.
Asphalt Performance Test	Does not fail after 3 pours

- 6. PRODUCT CONFORMITY AND SAMPLING: At the discretion of TxDOT, any shipment of release agent to a TxDOT location may be tested by infrared or gas chromatography for compliance with the MSDS and uniformity with the formulation of the approved release agent sample.