
* NOT MEASUREMENT *
* SENSITIVE *

OO-R-2852
January 7, 1994
SUPERSEDING
MIL-R-10550F
28 January 1989

FEDERAL SPECIFICATION

ROLLERS, MOTORIZED, TANDEM, 2-AXLE
AND 3-AXLE, DED

This specification is approved by the Commissioner, Federal Supply Service, General Services Administration, for the use of all Federal agencies.

1. SCOPE

1.1 Scope. This specification covers tandem, 2-axle and 3-axle, motorized rollers.

1.2 Classification. The rollers will be of the following types and sizes as specified (see 6.2).

Type II - Two-axle
Size - 5 to 8 ton (4536 to 7257 kilogram (kg))
Size - 8 to 12 ton (7257 to 10 886 kg)

Type III - Three-axle
Size - 13 to 18 ton (11 793 to 16 329 kg)

*Beneficial comments (recommendations, additions, deletions) and any
*pertinent data hich may be of use in improving this document should be
*addressed to: Commanding Officer (Code 156), Naval Construction Battalion
*Center, 1000 23rd Avenue, Port Hueneme, CA 93043-4301, by using the
*Standardization Document Improvement Proposal (DD Form 1426) appearing at
*the end of this document or by letter.

FSC 3895

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2. APPLICABLE DOCUMENTS

2.1 Government documents.

2.1.1 Specifications, standards, and handbooks. The following specifications, standards, and handbooks form a part of this document to the extent specified herein. Unless otherwise specified, the issues of these documents are those listed in the issue of the Department of Defense Index of Specifications and Standards (DODISS) and supplement thereto, cited in the solicitation (see 6.2).

Federal Specification

W-B-131 - Battery Storage (Vehicular, Ignition, Lighting, and Starting)

Federal Standard

FED-STD-595 - Colors Used in Government Procurement

Military Specification

MIL-R-3075 - Rollers, Motorized, Road, Diesel- or Gasoline-Engine-Driven, Packaging of

Military Standard

MIL-STD-209 - Slings & Tiedown Provisions for Lifting & Tying Down Military Equipment

(Unless otherwise indicated, copies of federal and military specifications, standards, and handbooks are available from the Standardization Documents Order Desk, Bldg. 4D, 700 Robbins Avenue, Philadelphia, PA 19111-5094.)

2.2 Non-Government publications. The following documents form a part of this document to the extent specified herein. Unless otherwise specified, the issues of the documents which are DOD adopted are those listed in the issue of the DODISS cited in the solicitation. Unless otherwise specified, the issues of the documents not listed in the DODISS are the issues of the documents cited in the solicitation (see 6.2).

Society of Automotive Engineers, Inc. (SAE):

SAE J534 - Lubrication Fittings

SAE J598 - Sealed Lighting Units for Construction, Industrial and Forest Machinery

(Application for copies should be addressed to the Society of Automotive Engineers, Inc., 400 Commonwealth Drive, Warrendale, PA 15096.)

(Non-Government standards and other publications are normally available from the organizations that prepare or distribute the documents. These documents also may be available in or through libraries or other informational services.)

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2.3 Order of precedence. In the event of a conflict between the text of this document and the references cited herein (except for associated detail specifications or standards), the text of this specification takes precedence. Nothing in this specification, however, supersedes applicable laws and regulations unless a specific exemption has been obtained.

3. REQUIREMENTS

3.1 Description. The rollers shall be driven by a commercial diesel engine. The rollers shall be arranged in tandem and shall be hydraulically steered. The ballasted rollers shall operate at any speed from 0.5 miles per hour (mph) (0.8 kilometers per hour (km/h)) to not less than 5 mph (8 km/h) while traveling up or down a 7 percent grade at any elevation from sea level to 5,000 feet (152 400 meters (m)) above sea level.

3.2 First article. When specified in the contract or purchase order (see 6.2), the contractor shall furnish one roller for first article inspection (see 4.2.1 and 6.4).

3.3 Standard commercial product. The roller shall, as a minimum, be in accordance with the requirements of this specification and shall be the manufacturer's standard commercial product. Additional or better features which are not specifically prohibited by this specification but which are a part of the manufacturer's standard commercial product, shall be included in the roller being furnished. A standard commercial product is a product which has been sold or is being currently offered for sale on the commercial market through advertisements or manufacturer's catalogs, or brochures, and represents the latest production model.

3.4 Materials. Materials used shall be free from defects which would adversely affect the performance or maintainability of individual components or of the overall assembly. Materials not specified herein shall be of the same quality used for the intended purpose in commercial practice. Unless otherwise specified herein, all equipment, material, and articles incorporated in the work covered by this specification are to be new and fabricated using materials produced from recovered materials to the maximum extent possible without jeopardizing the intended use. The term "recovered materials" means materials which have been collected or recovered from solid waste and reprocessed to become a source of raw materials, as opposed to virgin raw materials. None of the above shall be interpreted to mean that the use of used or rebuilt products is allowed under this specification unless otherwise specified.

3.5 Interchangeability. All rollers of the same classification furnished with similar options under a specific contract shall be identical to the extent necessary to insure interchangeability of component parts, assemblies, accessories, and spare parts.

3.6 Weights. The rollers shall conform to the weight requirements specified in table I without the addition of special weights and with the addition of water ballast.

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TABLE I. Weights (minimum)

	Type II	Size	Type III
Weight, empty	10,000	16,000	26,000
(pounds) (kg)	(4550 kg)	(7260 kg)	(11 790 kg)
Weight, ballasted	16,000	24,000	36,000
(pounds) (kg)	(7260 kg)	(10 900 kg)	(16 350 kg)

3.7 Engine. The roller shall be driven by a commercial type diesel engine. The engine shall be the manufacturer's standard engine normally furnished to the commercial market for this type of equipment. The engine shall have horsepower, torque, and speed characteristics to meet all roller performance requirements specified herein. The roller shall have an exhaust system with muffler. The exhaust system shall be protected against the entry of rain. The engine shall be furnished complete with at least the following accessories:

- a. Fuel tank of sufficient capacity for 8 hours normal operation.
- b. Two stage dry type intake air cleaner with service indicator.
- c. Battery mounting location painted with acid-resistant paint.
- d. A 12-volt negative ground direct current cranking system with battery in accordance with W-B-131. The battery shall have a capacity of not less than 100 ampere hours at a 20-hour rate.
- e. Battery charging alternator with a rating of not less than 35 amperes.
- f. Indicating control devices of the visual or audible type for high coolant temperature and low lubricating oil pressure.
- g. Engine housing.
- h. Automatic switch or device to preclude accidental starts when transmission or drive system is in any mode except neutral.
- i. Instrument and control panel located at the operator's station and equipped with, but not limited to, the following indicators and controls:
 - (1) Coolant temperature indicator.
 - (2) Liquid fuel quantity indicator.
 - (3) Lubricating oil pressure indicator.
 - (4) Tachometer.
 - (5) Manual speed control.
 - (6) Emergency shutdown device, when two cycle engine is furnished.
 - (7) Ignition or start switch.
 - (8) Hour meter, totalizing mechanism of not less than 9999 hours.
 - (9) Normal shutdown device.
 - (10) Battery charging indicator.
 - (11) Air cleaner indicator.

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3.7.1 Power and speed rating. The power and speed rating of the engine shall be such that operating the roller as specified in 3.1 shall not require horsepower in excess of the engine manufacturer's warranted specifications.

3.8 Safety. All rotating or reciprocating parts and all parts subject to high operational temperature that are of such nature or are located so as to be, or become a hazard to operating or maintenance personnel shall be guarded or insulated to the extent necessary to eliminate the hazard. Manufacturer's standard roll-over protective structure (ROPS) shall be furnished.

3.8.1 Noise. If the noise level in the area occupied by the operator exceeds 85 decibels (dB), a clearly visible and legible warning plate containing the following be permanently affixed to the roller in a conspicuously protected location: "CAUTION: HEARING PROTECTION REQUIRED WHEN ROLLER IS IN OPERATION". The plate shall have a yellow background with black lettering and shall be of corrosion-resistant material. Manufacturers shall provide means to reduce the exterior noise below 88 dB(A).

3.9 Maintainability. The roller shall be designed so that components are readily accessible for repair or replacement, with minimum removal or disturbance of adjacent parts or components, using general purpose tools. Operating parts, accessories, and drain outlets shall be readily accessible for regular maintenance service.

3.9.1 Filling, draining, and checking provisions. The hydraulic system reservoir and transmission housings shall be equipped with dipsticks or sight glass windows to determine the fluid level. Other enclosures such as gear cases and reservoirs which contain lubricant or hydraulic oil shall be equipped with dipsticks or sight glass windows or with check plugs of not less than 1/2-inch (13 millimeter (mm)) pipe size to determine the fluid level. Each enclosure shall be equipped for filling and for draining. In lieu of a magnetic drain plug, a separate magnetic device may be fastened inside the enclosure at or near the bottom and shall be removable for cleaning without removal of other parts or components. Each drain plug or valve shall be located so that removal of the plug or valve will result in complete drainage of the fluid from the enclosure. Accessibility to the fill opening, the fluid level checking device, and the drain plug or valve shall be provided without removal of accessories and parts.

3.10 Operator's platform and steps. An operator's platform with operator's seat(s) shall be provided. The seat(s) shall be adjustable to either side of the operator's platform, and shall be located to permit operation of all controls from either seat position on the operator's platform (see 3.11). Dual seats, one on each side of the operator's platform, are acceptable. The seat shall be covered with a durable, waterproof covering. Steps and handholds shall be provided for access to the operator's platform. The operator's platform and steps shall be provided with an antiskid surface.

3.11 Controls. All controls necessary to operate the roller shall be provided and shall be located within reach of the operator from either seat position on the operator's platform. All operational controls shall be identified with plates or decals constructed of materials with life expectancy of not less than seven years, while exposed to all elements of weather including direct sunlight.

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3.12 Brakes. Service brakes shall be provided (except on rollers equipped with a hydrostatic transmission) of the heavy-duty adjustable type, and shall be actuated from the operator's platform by means of a foot pedal, a hand lever, or a combination of a foot pedal and a hand lever. Service brakes or the hydrostatic transmission shall be capable of bringing the ballasted roller to a complete stop within 10 feet (3.05 m) from a speed of 5 mph (8 km/h) on a dry, level asphalt surface. An adjustable manually operated parking brake with controls shall be provided. The parking brake shall be capable of stopping and holding the ballasted roller on a 7 percent grade.

3.13 Rollers. The front and rear roller sections shall be fabricated from steel, shall be watertight, and shall have provisions for filling and draining water ballast. The rollers shall be carried on antifriction bearings equipped with seals to prevent entry of water and dirt.

3.14 Scrapers. The front and rear rollers shall be provided with scrapers to keep the rolls clean. The scrapers shall be spring loaded to assure contact with the roller. Each roller shall be provided with two scrapers, one mounted in the front and one mounted in the rear, to provide cleaning in either rotation. The scraper blades shall be bolted to their supports to facilitate removal or replacement.

3.15 Sprinkler system. A pressurized sprinkler system shall be provided for wetting the full width of each roller. The sprinkler system shall include, but not be limited to, direct current electrically driven pump(s), solenoid valves, piping, fittings, spraybars, and removable atomizing nozzles. A filter, strainer, or combination of both shall be included in the system, capable of retaining particles large enough to plug the spray nozzles. The filter and strainer shall be removable for cleaning without disturbing the plumbing. The pumps shall provide sufficient pressure to the nozzles to provide a fog spray. An automatic cutoff system shall be provided to prevent continuous operation of the electric pump(s) when the water tank(s) is empty or machine is in neutral. A control(s) for the front roller and for the rear roller shall be provided and shall be accessible to the operator in the normal operating position. The water supply tank(s) shall have a capacity of not less than 125 gallons (470 liters (L)) for type II rollers and 200 gallons (750 L) for type III rollers. The sprinkling system, including the water tank(s), shall be corrosion-proof. Water supply hoses that pass through the roller frame shall be protected against damage from chafing.

3.16 Steering system. The manufacturer's standard power-assisted steering system shall be provided.

3.17 Lighting system. A complete 12-volt lighting system shall be provided as specified. Electrical systems shall meet the requirements specified in 3.7 and 3.17.1. The lighting system shall include two forward and two rearward directed sealed beam floodlights conforming to SAE J598.

3.17.1 Switches and circuit breakers. The floodlights shall be controlled by two switches mounted on the instrument panel and provided with permanently affixed identification markings. A switch with circuit breaker and or fuse(s) and associated electrical circuitry shall be provided for independent control of each pair of floodlights.

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3.18 Instruction plates. The roller shall be equipped with instruction plates and or decals suitably located, describing any special or important procedures to be followed in operating and servicing the equipment, and shall be of a material which will last and remain legible for the life of the equipment.

3.19 Identification marking. Identification shall be permanently and legibly marked directly on the roller or on a corrosion-resisting metal plate securely attached to the roller at the source of manufacture. Identification shall include the manufacturer's model and serial number, name and trademark to be readily identifiable to the manufacturer.

3.20 Lubrication. Means for lubrication shall be in accordance with the manufacturer's standard practice. The lubricating points shall be easily visible and accessible. Hydraulic lubrication fittings shall be in accordance with SAE J534. Where use of high pressure lubricating equipment, 1,000 pound force per square inch (psi) (6996 kilopascals (kPa)) or higher, will damage grease seals or other parts, a suitable warning shall be affixed to the equipment in a conspicuous location. An automatic pressure release device shall be provided where the use of pressure lubricating equipment could damage grease seals or other parts.

3.21 Servicing and adjusting. Prior to acceptance of the roller by the Government, the contractor shall service and adjust the roller for immediate operational use as required in the operator's manual. The servicing and adjusting shall include at least the following:

- a. Adjustment of brakes, (when required).
- b. Proper functioning of all lighting and electrical systems.
- c. Adjustment of engine to include tune up, (when required).
- d. Complete lubrication with grades of lubricants recommended for ambient temperature at the delivery point.
- e. Cooling system filled to capacity with a clean solution of equal parts by volume of water and antifreeze (ethylene glycol).

The roller shall be conspicuously tagged to identify the lubricants and their temperature range.

3.22 Lifting and tiedown attachments. When specified (see 6.2), the roller shall be equipped with lifting and tiedown attachments. Lifting and tiedown attachments shall conform to the general and detailed requirements of MIL-STD-209 for type II or type III. Lifting attachments shall be designed to preclude the use of spreader bars. A nonferrous transportation plate shall be provided and mechanically attached to the roller. Transportation plates shall be inscribed with a diagram showing the lifting attachments and lifting slings, the capacity of each attachment, and the required length and size of each sling cable. A silhouette of the item furnished showing the center of gravity shall be provided on the transportation plate. Tiedown attachments may be identified by stenciling or other suitable marking. Tiedown marking shall clearly indicate that the attachments are intended for the tiedown of the roller on the carrier when shipped.

3.23 Cleaning, treatment, and painting. Surfaces normally painted in good commercial practice shall be cleaned, treated, and painted as specified herein. The color of the finish coat shall be manufacturer's standard yellow, nearest

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match to No. 13538 conforming to FED-STD-595. The end item, allied equipment, and attachments shall be the same color. Surfaces to be painted shall be cleaned and dried to insure that they are free from contaminants such as oil, grease, welding slag and spatter, loose mill scale, water, dirt, corrosion product, or any other contaminating substances. As soon as practicable after cleaning, and before any corrosion product or other contamination can result, the surfaces shall be prepared or treated to insure the adhesion of the coating system. The painting shall consist of at least one coat of primer and one finish coat of acrylic based enamel. The primer shall be applied to a clean, dry surface as soon as practicable after cleaning and treating. Painting shall be with manufacturer's current materials according to manufacturer's current processes and the total dry film thickness shall be not less than 2.5 mils over the entire surface. The paint shall be free from runs, sags, orange peel, or other defects.

3.24 Toolbox. A toolbox with a hinged lid and trunk drawbolt of a type that will keep the lid closed when the toolbox is subjected to vibration shall be provided. The toolbox shall be securely fastened in a protective and accessible location.

3.25 Type II roller. The engine of each type II roller shall be connected to the final drive through a hydrostatic transmission or a minimum of two speed transmission with a torque converter drive as specified. The transmission lever shall be accessible to the operator when seated in the normal operating position. For non-hydrostatic transmissions, identification of shift selection positions shall be provided by permanently affixed plates.

3.25.1 Torque converter. When provided, the torque converter shall have a torque multiplication of not less than 2 to 1 at stalling speed. The torque converter shall be provided with a cooler so that the temperature of the converter oil does not exceed 240 degrees Fahrenheit (oF) (116o Celsius (C)).

3.25.2 Tailshaft governor. The speed of the roller shall be automatically controlled throughout the speed range specified in 3.1 by a governor (except for hydrostatic transmission) connected to the throttle. The governor shall be connected to the manual throttle control so that the desired engine speed is selected manually.

3.25.3 Hydrostatic transmission. The hydrostatic transmission shall be the closed loop type with infinitely variable forward and reverse speeds. The hydrostatic transmission shall be capable of bringing the roller, fully ballasted, with water tank full, to a complete stop within 10 feet (3.05 m) from a speed of 5 mph (8 km/h) on dry, level asphalt surface. The pump and motor shall not exceed their respective speed ratings during any operations specified herein. The speed ratings shall be the ratings previously published by the manufacturer for commercial use of the components. The system shall withstand all operations specified herein without permanent deformation, damage or leakage.

3.25.3.1 Transmission control. Activation of the hydrostatic transmission shall be through a single control lever.

3.25.3.2 Filter. The hydrostatic system filter shall be the manufacturer's standard.

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3.25.3.3 Gauge ports. When practicable by the manufacturer, gauge ports shall be provided in the system to measure operating pressures in the main hydraulic circuit, charge pump circuit and servo control circuit.

3.26 Type III. The engine of the type III roller shall be connected to the final drive through a minimum two speed transmission with torque converter drive (see 3.25.1 and 3.25.2).

3.27 Workmanship.

3.27.1 Steel fabrication. The steel used in fabrication shall be free from kinks, sharp bends, and other conditions which would be deleterious to the finished product. Manufacturing processes shall not reduce the strength of the steel to a value less than intended by the design. Manufacturing processes shall be done neatly and accurately. All bends shall be made by controlled means to insure uniformity of size and shape.

3.27.2 Bolted connections. Boltholes shall be accurately punched or drilled and shall have the burrs removed. Washers or lockwashers shall be provided in accordance with good commercial practice, and all bolts, nuts, and screws shall be tight.

3.27.3 Riveted connections. Rivet holes shall be accurately punched or drilled and shall have the burrs removed. Rivets shall be driven with pressure tools and shall completely fill the holes. Rivet heads, when not countersunk or flattened, shall be of approved shape and of uniform size for the same diameter of rivet. Rivet heads shall be full, neatly made, concentric with the rivet holes, and in full contact with the surface of the member.

3.27.4 Welding. Welding procedures shall be in accordance with a nationally recognized welding code. The surface of parts to be welded shall be free from rust, scale, paint, grease, or other foreign matter. Welds shall be of sufficient size and shape to develop the full strength of the parts connected by the welds. Welds shall transmit stress without permanent deformation or failure when the parts connected by the weld are subjected to proof and service loadings.

3.28 System of measurement. The dimensions used in this specification are not intended to preclude the use of the metric system of measurement in the fabrication and production of the material, individual parts, and the finished product, provided form, fit, and function requirements are satisfied.

4. QUALITY ASSURANCE PROVISIONS

4.1 Responsibility for inspection. Unless otherwise specified in the contract or purchase order, the contractor is responsible for the performance of all inspection requirements (examinations and tests) as specified herein. Except as otherwise specified in the contract or purchase order, the contractor may use his own or any other facilities suitable for the performance of the inspection requirements specified herein, unless disapproved by the Government. The Government reserves the right to perform any of the inspections set forth in this document where such inspections are deemed necessary to ensure supplies and services conform to prescribed requirements.

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4.1.1 Responsibility for compliance. All items shall meet all requirements of sections 3 and 5. The inspection set forth in this document shall become a part of the contractor's overall inspection system or quality program. The absence of any inspection requirements in this document shall not relieve the contractor of the responsibility of ensuring that all products or supplies submitted to the Government for acceptance comply with all requirements of the contract. Sampling inspection, as part of manufacturing operations, is an acceptable practice to ascertain conformance to requirements, however, this does not authorize submission of known defective material, either indicated or actual, nor does it commit the Government to accept defective material.

4.1.2 Component and material inspection. Components and materials shall be inspected in accordance with all the requirements specified herein and in applicable referenced documents.

4.2 Classification of inspection. The inspection requirements specified herein are classified as follows:

- a. First article inspection (see 4.2.1).
- b. Quality conformance inspection (see 4.2.2).

4.2.1 First article inspection. The first article inspection shall be performed on roller when a first article is required (see 3.2 and 6.2). This inspection shall include the examination of 4.3, the tests of 4.5, and, when specified, the preproduction pack inspection of 4.6 (see 4.6 and 6.2). The first article may be either a first production item or a standard production item from the supplier's current inventory provided the item meets the requirements of the specification and is representative of the design, construction, and manufacturing technique applicable to the remaining items to be furnished under the contract.

4.2.2 Quality conformance inspection. The quality conformance inspection shall include the examination of 4.3, the tests of 4.5, and the packaging inspection of 4.6. This inspection shall be performed on each roller.

4.3 Examination. Each roller shall be examined for compliance with the requirements specified in section 3 of this specification. Any redesign or modification of the contractor's standard product to comply with specified requirements, or any necessary redesign or modification following failure to meet specified requirements shall receive particular attention for adequacy and suitability. This element of inspection shall encompass all visual examinations and dimensional measurements. Noncompliance with any specified requirements or presence of one or more defects preventing or lessening maximum efficiency shall constitute cause for rejection.

4.4 Production sample. Upon acceptance of the first article, the first article shall remain at the manufacturing facility as a production sample, and shall be the last roller delivered on the contract. The production sample shall be reconditioned, including replacement of abnormally worn parts and paint touch up or repainting prior to delivery to enable it to be accepted as a contract item. The contractor shall maintain the production sample in a serviceable condition for the duration of the contract.

4.5 Tests.

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4.5.1 Operational tests. The first article roller and each production roller shall be operated for 1 hour at speeds between 0.5 mph (0.8 km/h) and maximum engine governed speed. All controls shall be operated as many times as necessary to determine ease of operation, effectiveness, responsiveness, and that the mechanisms actuated by the controls operate promptly, fully and without restriction, malfunction or excessive vibration. The hydraulic, fuel and coolant systems shall be visually examined for evidence of leakage or failure.

4.5.2 Lifting and tiedown attachments test. When specified, the roller shall be tested to verify that the attachments conform to the requirements specified in 3.22.

4.6 Packaging inspection. The inspection of the preservation, packing, and marking shall be in accordance with the requirements of section 4 of MIL-R-3075. The inspection shall consist of the quality conformance inspection, and when specified (see 6.2), a preproduction pack shall be furnished for examination and test within the time frame required (see 6.2).

5. PACKAGING

5.1 Preservation, packing, and marking. Preservation, packing, and marking shall be in accordance with the requirements of MIL-R-3075 with the level of preservation and the level of packing as specified (see 6.2).

6. NOTES

(This section contains information of a general or explanatory nature that may be helpful, but is not mandatory.)

6.1 Intended use. The roller is intended for compaction of composition fill and bituminous road surfaces.

6.2 Ordering data. Purchasers should select the preferred options permitted herein and include the following information in acquisition documents:

- a. Title, number and date of this specification
- b. Type and size required (see 1.2)
- c. Issue of DODISS to be cited in the solicitation, and if required, the specific issue of individual documents referenced (see 2.1.1 and 2.2)
- d. When first article roller is required (see 3.2, 4.2.1 and 6.4)
- e. When lifting and tiedown attachments are required (see 3.22)
- f. When a preproduction pack shall be furnished for inspection, and the time frame required for submission (see 4.6)
- g. Level of preservation and level of packing required (see 5.1)

6.3 Data requirements. When this specification is used in an acquisition and data are required to be delivered, the data requirements shall be developed as specified by an approved Data Item Description (DD Form 1664) and delivered in accordance with the approved Contract Data Requirements List (DD Form 1423) incorporated into the contract. When the provisions of DOD Federal Acquisition Regulations (FAR) Supplement, Part 27, Sub-Part 27.475-1 are invoked and the DD Form 1423 is not used, the data should be delivered by the contractor in accordance with the contract or purchase order requirements.

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6.4 First article. When a first article inspection is required, the item will be tested and should be a first production roller, or it may be a standard production item from the contractor's current inventory as specified in 4.2.1. The first article should consist of one roller. The contracting officer should include specific instructions in acquisition documents regarding arrangements for examination, test, and approval of the first article.

6.5 Subject term (key word) listing.

Compactor, bituminous, pavements

Compactor, earth

6.6 Supersession data. This specification replaces military specification MIL-R-10550F dated 28 January 1989.

6.7 Classification cross reference. Classifications used in this specification (see 1.2) are identical to those found in the superseded military specification, MIL-R-10550F.

MILITARY INTERESTS:
ACTIVITIES:

CIVIL AGENCY COORDINATING

Custodian

GSA - FSS

Navy - YD1

PREPARING ACTIVITY:

Review Activity

Navy - YD1

DLA - CS

(Project 3895-0356)