

**Fed. Std. No. 143a**

AUGUST 9, 1960

(W-S-506, Issue on Effect)

SUPERSEDING

Int. Fed. Std. No. 143

October 13, 1959

**FEDERAL STANDARD****SPARK PLUG, HEAT RATING OF,****METHOD OF CLASSIFYING**

*Authority.-This standard is issued pursuant to the Federal Property and Administrative Services Act of 1949, as amended, and its application to the purchase of commodities referred to herein is mandatory on all Federal agencies.*

**S1. Purpose and scope.**-The purpose of this Federal Standard is the establishment of uniform heat rating descriptions for use in classifying spark plugs of the unshielded type. The content of this standard is for use in describing unshielded spark plugs, procured, catalogued, stocked, or used by the Government.

**S2. Application.**- Purchases from commercial sources under Federal Specification W-S-506 of the issue in effect on date of invitation for bids, shall be limited to items which have characteristics, and packaging and packing requirements conforming to the standard items specified herein. Existing Government stocks of items with other characteristics, and packaging and packing shall continue to be utilized until exhausted. In those cases where this Federal Standard eliminates supply items and the items as eliminated are under contract, if the contract cannot be negotiated or amended to conform to the standard items, the Federal Standard becomes mandatory at the contract expiration date.

**S3. Heat rating descriptions:**

<i>Heat Rating</i>	<i>IMEP*</i>
Hot	Below -100
Normal-Hot	100 - 135
Normal	135 - 175
Normal-Cold	175 - 210
Cold	Above -210

\*The IMEP (Indicated Mean Effective Pressure) is expressed in p.s.i. (pounds per square inch) using the test procedure and engine operating conditions as specified in the SAE (Society Automotive Engineers) Recommended Practices of the SAE Manual.

**S4. Changes.**- When a Federal agency considers that a Federal Standard does not provide for its essential needs, written request for adding to or otherwise changing the standard, supported by adequate justification, shall be sent to the Administration. This justification shall explain wherein the standard does not provide for essential needs. The request shall be sent in duplicate, to the General Services Administration, Federal Supply Service, Standardization Division, Washington 25, D.C. The Administration will determine the appropriate action to be taken and will notify the agency.

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**S5. Conflict with referenced specifications.** Where the requirements specified in this standard conflict with any requirements in a referenced specification, the requirements of the standard shall apply. Nature of conflict between the standard and the referenced specification shall be submitted in

duplicate to the General Services Administration, Federal Supply Service, Standardization Division, Washington 25, D. C.

**MILITARY INTEREST:**  
Navy-Y