

Spec 1390-2677, Rev A IFB DGS 1408-019 Attachment 2

Document Summary

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1.0 SCOPE

This specification covers red fusees (without spikes) intended to be carried on automotive vehicles for use as emergency highway traffic warning signals.

2.0 APPLICABLE LAWS and INDUSTRY STANDARDS

Specifications, standards and regulations referenced in this document in effect on the opening of the invitation for bid, form a part of this specification.

2.1 LAWS and REGULATIONS None listed

2.2 INDUSTRY STANDARDS

2.2.1 Underwriters Laboratories Standard (UL) 912 Highway Emergency Signals, latest edition Sections 24 through 35

3.0 TECHNICAL REQUIREMENTS

3.1 GENERAL

- 3.1.1 Specified rated time for each fusee shall be either 15, 20, or 30 minutes.
- 3.1.2 The fusees shall conform in all respects to the requirements of Underwriters Laboratories Standard (UL) 912 Highway Emergency Signals, latest edition Sections 24 through 35 for fusees as well as conform to the additional requirements of this specification.
- 3.1.3 The fusee shall be approved for sale and use in the state of California by the Office of the State Fire Marshal.
- 3.1.4 Fusees shall have an anti-rolling feature that shall meet the test requirements in Section 4.0 of this bid specification. This feature shall not create excess bulk such as to require additional storage space.
- 3.1.5 There shall be no metal parts used in the fusees.
- 3.1.6 Fusees shall contain no potassium perchlorate.

3.2 WORKMANSHIP

The fusees shall be free from defects that will affect the safety, appearance, or serviceability.

3.3 SPECIAL MARKINGS

In addition to marking required by UL 912 Section 35, each fusee shall be marked with instruction for use of the anti-roll device, date (month and year) of manufacture, and the California State Office of the State Fire Marshal's seal of approval. Markings should also include, "Does Not Contain Potassium Perchlorate". All markings shall be legible.



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4.0 QUALITY ASSURANCE PROVISIONS

4.1 STATE ANTI-ROLL TEST REQUIREMENT

The test surface shall be concrete or asphalt with a road surface roughness range from 0.3 to 0.55 coefficient of friction as determined by the California Department of Transportation Test 342 (Typical Road Surface). The test surface shall not be perceptibly out of flat and shall be at a 10° incline ±2° from the horizontal. The fuse shall be dropped from knee height of 20 inches, ±3 inches from the surface, and shall not roll or slide more than 24 inches from the point of impact.

4.2 PERCHLORATE TEST

The fusee shall be tested for potassium perchlorate per UL 912, 34A.