

AEROSPACE RECOMMENDED PRACTICE

SAE ARP1832

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Color Identification for O-ring Seals

RATIONALE

This document has been determined to contain basic and stable technology which is not dynamic in nature.

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1. SCOPE:

This Aerospace Recommended Practice sets forth the guidelines for the use of non-black O-ring seals. Black is the preferred color for polymer types other than Silicone and Fluorosilicone. When a color other than black is to be used, those established by this document are the preferred.

2. BACKGROUND:

The lack of color standardization has long been a source of confusion. This is due, in part, to the fact that it is extremely difficult to differentiate between various polymer types possessing vastly different properties by visual inspection. Color standardization, within major polymer groups, will assist in lessening this potential problem.

3. CAUTION:

Potential users, when considering the utilization of a non-black or black material, must consider the following: The functionality of an O-ring is due not only to a polymer classification (i.e., Fluorocarbon), but also on a specific compound within that polymer classification and the compounding technique used to formulate the finished product. Color identification does not discern functional differences obtained in this manner, but is to be used only as a possible guide to polymer families.

4. PURPOSE:

- 4.1 To establish colors for primary polymer types when black is not used; Chloroprene, Fluorocarbon, Ethylene Propylene, Silicone, Fluorosilicone and Fluorophosphonitrilic.
- 4.2 To reduce the possibility of mixed polymer types during storage.