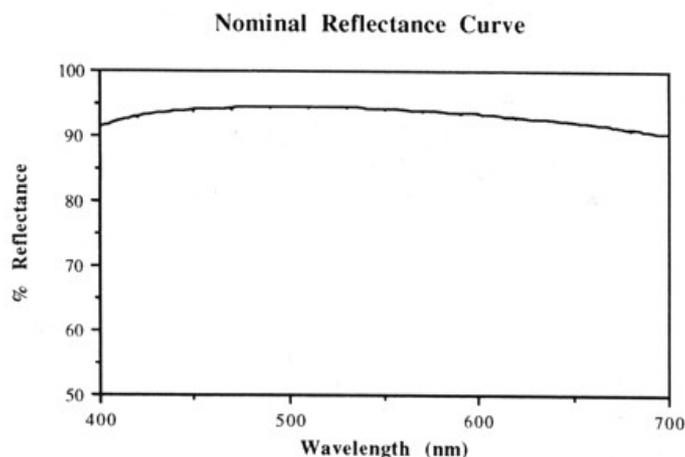


### Front surface Mirror SP94

- GENERAL:** This proprietary high performance enhanced front surface aluminium mirror coating is designed for use in optical and display system.
- SCOPE:** This specifications defines the quality and performance criteria for front surface mirror (FSM) products on glass substrates.
- APPLICABLE REFERENCE DOCUMENTS:** The following documents form a part of this specifications to the extent specified herein:
 

MIL-M-13508C	Mirror, Front Surfaced Aluminized; for optical elements
MIL-STD-810C	Environmental test methods
MIL-C-48497	Coating, Single or Multilayer, Interference: Durability requirements for.
- REFLECTANCE:** The specular reflectance for unpolarized light varies with incidence angle. Minimum reflectance values at 45 degrees:

Nm	%R 45°
400	92
450	93
550	94
600	90



- ADHESION:** The coating shall show no damage after 3M Scotch Brand n° 610 tape is pressed firmly against the coated surface and removed quickly by a snap of the wrist, according specified in Mil-C-48497, para. 4.5.3.1.
- ABRASION RESISTANCE:** The coating shall show no damage after a 200-Rub test with a cheesecloth pad approximately 3/8-inch diameter and 1/2-inch thick. The bearing force shall be pound +/- one quarter pound, according to Mil-M-13508C, para. 4.4.5.
- HUMIDITY RESISTANCE:** The coating shall show no deterioration after exposure to 24-hour humidity test (49° [120°F] 95% relative humidity) according to MIL-C-48497A, para. 4.5.3.2.
- CORROSION RESISTANCE (Salt fog) :** The coating shall show no deterioration after a 24-hour exposure to salt fog (5% NaCl by weight) at 35° C per MIL-STD-810C, method 509.1