

ALUMAMARK™ DURABILITY CHARACTERISTICS

CO2 Laser Markable Aluminum

SPECIFIC CHARACTERISTIC	Product	TEST CONDITION	EFFECT
Exterior exposure	Silver and Gold	Exterior exposure to all weather and temperature variation for 20 weeks. Lab weather test equivalent 10 years	No effect. Recommended 5+ years outdoor (longer if protected)
Ultraviolet Light exposure	Silver and Gold	UV exposure 10 -15 year equivalent	No effect
Interior exposure		Indoor environment, consistent temperatures 40F to 90F	No effect
Abrasion Resistance		Taber Abraser with CS17 wheel, 1000 gm. Load, 7000 cycles	Slight dulling of surface
Temperature Resistance		Black and Silver image, standard, 500 F	Slight yellowing of background material
Salt Spray		5% at 95 F for 700 hrs.	No Corrosion
Chemical Resistance			
Methyl Ethyl Ketone (MEK)	Silver and Gold	24 hr. immersion	No effect
Ethyl Acetate		24 hr. immersion	No effect
Ammonium Hydroxide		10% solution, 16 hr. immersion	Slight dulling
MIBK		24 hr. immersion	No effect
Brake Fluid		24 hr. immersion	No effect
Sulfuric Acid		10% solution, 16 hr. immersion test	No effect
Phosphoric Acid		1% solution, 7 hr. immersion test	No effect
Nitric Acid		3% solution, 72 hr. immersion	No effect
JP-4 Fuel		72 hr. immersion test	No effect
Skydrol (Hydraulic Fluid)		24 hr. immersions room temperature/ boiling point	No effect

Tests conducted on satin finish material

April 1, 2002