

Product: SandShield Label



Product Features

- Extremely abrasion resistant
- Available in preprinted labels or as pre-cut label covers
- Metalphoto[®] is the most specified label material in history for DoD applications, and the best choice for [Mil-Std-130](#) applications requiring durable UID labels.
- Photographic quality black and silver graphics are high contrast with excellent resolution.
- Attachment options include high performance 3M adhesives, CARC adhesive, or holes for mechanical fasteners.
- All Camcode [UID labels](#) are verified to the required print quality standards. Registration service is also available.

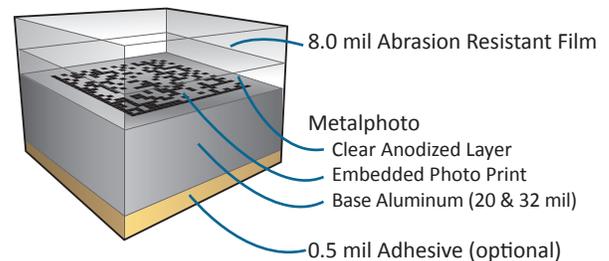
Need Sand Resistant Labels?

Description

Camcode's **SandShield Label** and **SandShield Label Cover** were designed for applications requiring extreme sand or gravel abrasion resistance.

The SandShield Label is constructed of a Metalphoto[®] anodized aluminum label, over laminated with an 8 mil thick highly abrasion-resistant film. This label has extremely good sand, gravel and abrasion resistance, good UV resistance and good resistance to most general purpose cleaners, mild acids, oil and water. The SandShield label comes with holes for mechanical attachment or a 5.0 mil high performance adhesive designed to permanently bond to metals and low surface energy (LSE) materials. An optional CARC adhesive is also available.

Camcode's SandShield is also available as a Label Cover, supplied as pre-cut clear blanks, which can be laminated over customer made labels for added abrasion resistance.



Product Specifications (SandShield Label)

- Material** .020" and .032" Metalphoto over laminated with 8.0 mil gloss clear abrasion resistant film.
- Adhesive** Available with pressure sensitive adhesive or holes for mechanical attachment.
- Label Copy** Several font types are available as well as logos or other design elements.
- Symbologies** All common symbologies available including code 3 of 9, I2 of 5, 128 and Datamatrix.
- Colors** Black graphics on matte silver background is standard. Tactical camouflage background colors are also available.
- Standard Sizes** Several standard and custom sizes available.
- Packaging** On sheets or in bags, in boxes, in sequential order. 100% no missing numbers.
- Shipment** 15 working days from receipt of order and approval of artwork. Expedited shipment is available for an additional charge.

SandShield Label Covers Durability Characteristics

Product Data	Value	Test Method
Physical Properties		
Thickness (mils[microns])	Film: 6.0 (15) +/- 10% Adhesive: 2.0 (5) +/-0.1 Liner: 4.0 (10) +/- 10% Total: 12.0 (20) +/- 10%	
Adhesive Properties		
At 70°F (21°C)		ASTM D-1000
Ultimate Peel	Oz/in (N/100 mm) average	
Bare Aluminum	60 (66)	
Acrylic Enamel Paint	51 (56)	
ABS Plastic	65 (71)	
Maximum Service Temperature	200°F (93°C)	
Minimum Application Temperature	50°F (10°C) on most surfaces	
Tensile Strength at Break	48 lb/in (842 N/100mm)	ASTM D882
Elongation % at Break	500%	ASTM D882

SandShield Labels (Preprinted) Durability Characteristics

Product Data	Value	Test Method
Physical Properties		
Thickness (mils[microns])	Film: 8 (203) + 20 or 32 (76-813) base label +/- 10% Adhesive: 5 (127) +/-10% (optional) Liner: 4.2-6.2 (107-157) +/- 10%	ASTM D 3652
Chemical Resistance	No image or adhesion loss	ASTM D 896 (modified for numbers of cycles and cycle time)
Household Cleaners	No image or adhesion loss	
Mild Acid	No image or adhesion loss	
Oil	No image or adhesion loss	
Water		
Adhesive Properties		
Ultimate Peel	Oz/in (N/m) average	ASTM D 3330 (modified for 72 hour dwell time)
Stainless Steel	159 (4620)	
Acrylic	125 (1360)	
Glass	145 (1580)	
Expected Exterior Life	2 years (SandShield) 20 years (Metalphoto Label)	
Service Temperature Range	-40°F to 212°F (-40°C to 100°C)	
Minimum Application Temperature	50°F (10°C) on most surfaces	
Storage Stability	Two years at 70°F and 50% RH.	

Note: Users must test products in the specific environment anticipated.
Camcode does not warrant performance of its materials in any environment.



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