



Aluminum Coil Anodizing Corporation
501 E. Lake Street • Streamwood IL 60107
Phone: 630-837-4000 • Fax: 630-837-0814
www.acacorp.com

Anodic Coating Designation System

The chemical finishes and comparative anodic coatings charts are designed as guidelines that match processing and required anodic film thickness for customer needs.

Chemical Finishes

Type of Finish	Continuous Coil Anodizers Assn.	ALCOA Designations	Alum. Assn. Designations	Description	Examples of Methods of Finishing*
ckn Etched Cleaned	N.P.T. (No Pretreatment)		C-10 C-11 C-12 C-1x	Unspecified Degreased Inhibited Chemical Cleaned Other	Organic solvent treated Inhibited chemical type Cleaner used. To be specified.
Etched	Matte Satin	R1 R2 R2	C20 C21	Unspecified Fine Matte	Trisodium phosphate, 3-6 oz./gal. used at 140-160oF for 3-5 min.
			C22	Medium Matte	Sodium hydroxide, 4-6 oz./gal. used at 140oF for 5 min.
			C23	Course Matte	Sodium fluoride, 1 1/2 oz. plus sodium hydroxide 4-6 oz./gal. used at 140oF for 5 min.
			C2X	Other	To Be Specified
Brightened	Chem. Brighten Bright-dipped (R5)	R5-Bright Dip* EB10, EB30 R1-R5 Bright Dip	C-30 C-31	Unspecified Highly Specular	Chemical bright dip solution of the proprietary phosphoric nitric acid type used or proprietary electro-brightening
			C-32	Diffuse bright	Etched finish C22 followed by brightened finish C31
			C-3x	Other	To Be Specified

*(Not Definitive Techniques)

Comparative Anodic Coating Designation

Film Thickness	Continuous Coil Anodizers Assn. Designations	ALCOA Designations	Alum. Assn. Designations	Description	Type of Finish
.0001 .0002	Nonstandard flash (less than .001 film thickness) Interior commercial standard .0001 to .0002 film thickness		A 21 A 22 A 23 A 2X	Clear (natural) coating Coating with integral color	Protective & Decorative (coatings less than 0.4 mils thick)
.0003		Alumilite 200 .0015 minimum thickness		Other	(Thickness to be specified by customer)
.0004 .0005	Architectural Class II .0004 to .0007	Alumilite 204 .0004 minimum thickness	A 31 A 32 A 33 A 3X	Same as Above	Architectural Class II (0.4 to 0.7 mil coating)
.0006 .0007 and up	Architectural Class I .0007 and up	Alumilite 214 .0006 minimum film thickness	A 41 A 42 A 43 A 4X	Same as Above	Architectural Class I (0.7 mil and greater anodic coating)