

Pre-Anodized Technical Data

Product	Type	Total Reflectance		Specular Reflectance		Diffuse Reflectance DIN 5036 - 3	Iridescence Scale 1-4	Alloy Purity	Temper (hardness)	Min Tensile Strength Mpa	Min Yield Strength Mpa	Min % Elongation A ₅ A ₁₀
		ASTM E 1651	DIN 5036-3	60° long	60° trans							
090	specular standard	86	86	80	77	15	1	Al 99.85	H18	125	105	2
100	specular brillon 1	86	86	82	80	12	2	Al 99.85	H18	125	105	2
101	specular brillon	86	86	83	81	10	2	Al 99.85	H18	125	105	2
103	specular mirror	86	86	84	82	8	3	Al 99.85	H18	125	105	2
106	specular reflex	87	87	85	84	6	3	Al 99.9	H18	125	105	2
121	reflectormatt	84	84	55	35	80	3	Al 99.7	H19	150	125	1
125	lumenal matt	85	85	70	65	66	3	Al 99.9	H18	125	105	2
130/2	reflector diffuse	83	83	32	10	80	2	5005	H14	145	120	2
130/4	reflector diffuse	82	82	28	9	80	3	5005	H14	145	120	2
130BF	double faced reflector Satinox	78	78	9	4	77	4	5005	H14	145	120	2
3010 BF	double faced reflector diffuse	78	78	17	5	80	3	5005	H14	145	120	2
145	semi-specular	84	84	50	45	45	3	5005	H16	165	145	2
Bright Sand	bright diffuse	84	84	35	30	80	4	Al 99.9	H19	140	120	1
210	stucco	83	83	not relevant		82	3	Al 99.5	H0/H18	125	105	2
230	concave hammered	85	85	not relevant		84	3	Al 99.85	H18	125	105	2
235	convex hammered	85	85	not relevant		84	3	Al 99.85	H18	125	105	2
236	large concave hammered	85	85	not relevant		84	3	Al 99.85	H19	125	105	1
250	etched rigato	-	-	not relevant		-	4	5005	H16	145	120	4
250,02	rigato	-	-	not relevant		-	3	5005	H16	145	120	4

All information provided is based on up-to-date values where possible. Optical values are typical results from 0.4 mm metal and are published for guidance only; they may vary according to raw material thickness. For more detailed information please contact our technical sales department. Physical characteristics of the materials are in accordance with EN (European Committee for Standardization).

Applicable Standards

Specular Reflectance (ISO 7668)

Measurements are made with Dr. Lange REFO 3 D reflectometer

Total Reflectance (DIN 5036-3)

Measurements are made using a 50 cm integrating sphere (Ulbricht Globe)

Total Reflectance At 30° (ASTM E 1651)

Measurements are made with the Technidyne TR2 integrating sphere

Diffuse Reflectance (DIN 5036-3)

Measurements are made using our 50 cm integrating sphere with a specular exit port

European Standards (EN) For Aluminium Ente Nazionale Italiano Di Unificazione (UNI)

Alloys UNI-EN 573-3
Mechanical Properties UNI-EN 485-2
Measuring Standards UNI-EN 485-4

Test Standard For Anodic Oxidation

Microscopic measurement of Oxide Layer UNI EN ISO 1463

General Tolerance

Thickness tolerance: ± 0.03 mm
Width tolerance: ± 0.15 mm
Length-cut sheets: ± 1 mm/m

Note

All materials listed above can be delivered in various sizes and shapes according to customer requirements.

Products with protective tape are guaranteed for six months after delivery if stored in a conditioned room (temperature 20-30°C and relative humidity 50-60%) and kept away from sunlight and any heating source. Protective tape is not UV resistant.

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