



ALUMINUM FINISHING SPECIFIC COLOR SOLUTIONS

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Heubach provides a wide range of colorants and process chemicals as well as global technical service. With more than 50 years of experience in the production of dyes and chemicals for finishing anodized aluminum, all core products feature Swiss quality and meet highest quality requirements. All of Heubach's state-of-the-art production sites comply with the latest and most stringent safety and environmental regulations. And with our technical customer service around the globe, we ensure close proximity to our customers and deliver industry leading and best-in-class sustainable color solutions to brighten the lives of every customer, wherever they are located.

The dye range distributed by Omya is now extended by selected high value products from other provenience with the same Heubach quality standards. This allows us to offer an even broader color gamut.

QUALITY PRODUCTS FOR ANODIZED ALUMINUM

Heubach manufactures a comprehensive range of dyes and chemicals, many of which had been patented. In 2009 the Sanodye grades were introduced, which do not contain heavy metals as structure element. Heubach is continuously working on the development of improved products to cover a wide spectrum of economic (energy efficiency) and environmental challenges with its products.

The manufacturing of Heubach's dyes involves multistep synthesis and utilizes many different process technologies. Precision, cleanliness and attention to detail are key components to provide top class products into the markets. Heubach offers technical customer service for all process steps, including on-site production & operation support, tailor made solutions and workflow optimization.

Heubach together with its exclusive partners Omya and Reliant prepare recommendations for colorants, chemicals and process parameters based upon complex requirements. Wherever the anodizing industry is located, Heubach and its partners offer all necessary application tests for anodizing, coloring and sealing anodized aluminum out of technical centers located in Asia, Europe and North America.

Heubach offers several products for anodized aluminum such as dyes, process chemicals and additives.

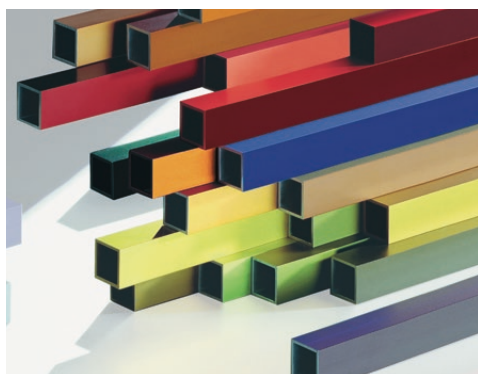
DYES

OUR DYES ARE DIVIDED INTO THREE RANGES



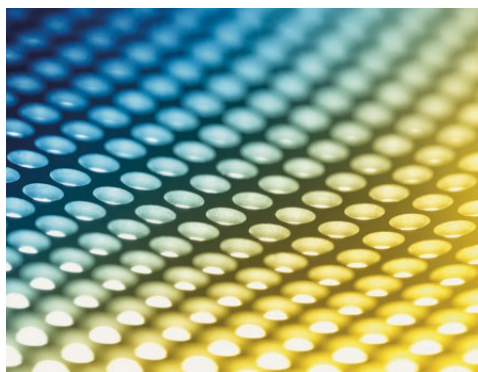
SANODAL®

- Excellent light- and weather fastness properties
- Suitable for outdoor and indoor applications
- Electrolytic dyeing with subsequent adsorptive over-dyeing possible
- Broad shade range accessible
- Designed for many architectural needs



SANODURE®

- Comprehensive range of colors, covering virtually all coloristic needs
- Overall good fade resistant properties
- Designed for indoor applications

























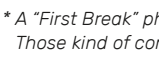


SANODYE®














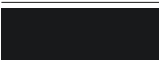




- Heavy metal free structure
- Overall good fade resistant properties
- Designed for interior or outdoor applications as indicated on our technical data sheets

DYE RANGE

SANODAL[®], SANODURE[®] AND SANODYE[®]

	NAME	MODIFICATION	OUTDOOR	INDOOR	HEAVY METAL FREE STRUCTURE	LIGHT FASTNESS
	SANODYE YELLOW 3GL	Granules	■	■	■	>9
	SANODYE YELLOW D	Powder		■	■	5
	SANODAL GOLD 4N	Powder	■	■		>9*
	SANODURE YELLOW 4A	Powder		■	■	6
	SANODURE GOLD S	Powder		■		6
	SANODYE ORANGE 2B	Powder		■	■	5-6
	SANODURE FAST GOLD L	Granules		■		7-8
	SANODURE ORANGE G	Granules		■		5-6
	SANODYE GOLDEN ORANGE RLW	Granules		■		5-6
	SANODURE ORANGE RL	Granules		■		5-6
	SANODURE FAST BRONZE L	Granules		■		7-8
	SANODYE BROWN R	Granules		■	■	5-6
	SANODAL ORANGE 3LW LIQ.	Liquid	■	■		>9
	SANODAL RED B3LW	Granules	■	■		>9
	SANODYE RED GLW	Granules		■	■	7
	SANODYE RED RLW	Granules		■	■	7
	SANODURE FIERY RED ML	Granules		■		6-7
	SANODYE MAGENTA LF	Liquid		■	■	8
	SANODYE PINK BLS	Powder		■	■	-
	SANODYE PINK TEJ	Powder		■	■	-
	SANODURE BORDEAUX RL	Granules		■		6-7
	SANODURE VIOLET CLW	Granules			■	6-7
	SANODYE VIOLET 3D	Powder		■	■	4-5
	SANODYE VIOLET MRB NEW	Powder		■	■	3-4
	SANODURE BLUE 4A	Powder		■		5-6

* A "First Break" phenomena for ferrioxalate containing dyes is well known and documented in literature: Those kind of compounds show a fading after a short radiation time which then does not further degrade.

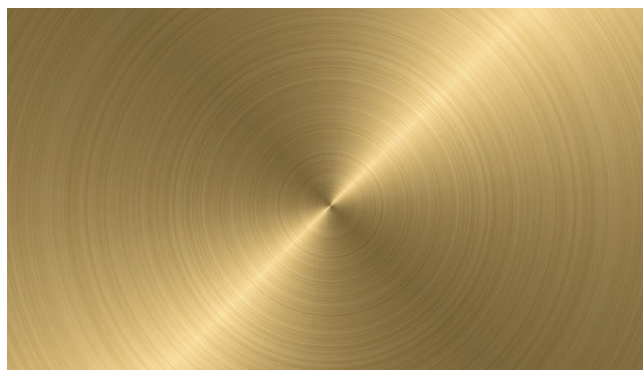
	NAME	MODIFICATION	OUTDOOR	INDOOR	HEAVY METAL FREE STRUCTURE	LIGHT FASTNESS
	SANODYE BLUE 2LW	Granules	■	■	■	>9
	SANODYE BLUE G	Granules	■	■	■	>9
	SANODAL TURQUOISE PLW LIQ.	Liquid	■	■		>9
	SANODYE GREEN AEN	Powder		■	■	6-7
	SANODYE GREEN AX	Powder		■	■	6
	SANODAL GREEN 3LW	Granules	■	■		>9
	SANODURE GREEN LWN	Granules		■		7-8
	SANODURE BROWN GSL	Granules		■		6-7
	SANODURE BRONZE 2LW	Granules		■		7
	SANODURE BRONZE G	Granules		■		6-7
	SANODURE BROWN BL	Powder		■		5-6
	SANODURE BROWN GL	Powder		■		5-6
	SANODURE YELLOW BROWN 2G	Granules		■		5-6
	SANODURE OLIVE BROWN 2R	Granules		■		6
	SANODURE GREY NL LIQ.	Liquid			■	7-8
	SANODURE GREY BL	Powder		■		6-7
	SANODURE GREY R	Liquid		■		6-7
	SANODURE GREY HLN LIQ.	Liquid			■	7-8
	SANODURE BLACK VA	Powder		■		5-6
	SANODAL BLACK 2LW	Granules	■	■		>9
	SANODAL DEEP BLACK HBL	Paste	■	■		>8 (12 µm) >10 (25 µm)
	SANODAL DEEP BLACK H3LW	Paste	■	■		>8 (12 µm) >10 (25 µm)
	SANODURE BLACK CRO	Powder		■		3-4 (12 µm) 7-8 (25 µm)
	SANODYE BLACK OA	Granules	■	■	■	>8
	SANODAL DEEP BLACK MLW GRAN.	Granules	■	■		>9
	SANODAL DEEP BLACK MLW	Powder	■	■		>9

ALUMINUM FINISHING

ANODAL® RANGE

PROCESS CHEMICALS AND ADDITIVES

- Comprehensive range of chemical process additives to increase productivity, efficiency and minimize environmental impact
- Anodal chemicals deliver consistent results and constant quality
- Designed to allow our customers to improve their processes and meet changing industry demands
- Tailored to the special needs of our dye ranges (Sanodal, Sanodye, Sanodure)





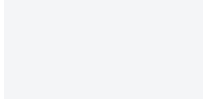
NAME	MODIFICATION	PROCESS STEP	DESCRIPTION
ANODAL CLEAN BFO	Liquid	Degreasing	Alkaline cleaning agent for aluminum and its alloys. Not suitable for polished material.
ANODAL CLEAN BFO-1	Liquid	Degreasing	Slightly alkaline cleaning agent for aluminum parts and their alloys.
ANODAL EC-2	Liquid	Etching	Long term etching additive, complexing and leveling additive for high aluminum loads containing etching tanks (>150g/L), specially developed for matt finishing (E6), additionally suitable for zinc containing alloys, no silicate and chlorate added.
ANODAL EE	Liquid	Anodizing	Surface levelling, burning prevention, reduced refrigerating temperature, hard coating.
ANODAL SUAC	Liquid	Anodizing	Additive for the integral coloring process.
ANODAL COLOR S-2	Liquid	Electrolytic coloring	Metal free structure stabilizer for tin sulfate coloring, throwing power trigger, leveling agent.
ANODAL COLOR T	Liquid	Electrolytic coloring	Tin sulfate for electrolytic coloring.
ANODAL COLOR TS-3	Liquid	Electrolytic coloring	Optimized blend of sulphuric acid, tin (II) sulfate, a stabilizer and a scattering agent, for electrolytic coloring of aluminum by the two-step method.
ANODAL SH-1	Liquid	Sealing	Anti-smutting, hot water sealing additive (>96°C).
ANODAL SH-2	Liquid	Sealing	Anti-smutting, mid-temperature sealing additive (82 – 90 °C).
ANODAL ASL	Liquid	Sealing	Anti-smutting, hot nickel sealing additive (>96°C).
ANODAL ASL P	Powder	Sealing	Improved nickel acetate preparation for high grade, deposit-free sealing.
ANODAL MS-2	Liquid	Sealing	Anti-smutting, nickel containing sealing additive, mid-temperature nickel sealing (75 – 85 °C).
ANODAL OL	Powder	Sealing	Additive for smut-free hot water or nickel acetate sealing. Prevents the formation of seal smut.
ANODAL CS-2N	Powder	Sealing	Universal product recommended for sealing anodized aluminum at room temperature.
ANODAL CS-3A	Powder	Sealing	Cobalt free product recommended for sealing anodized aluminum at room temperature.
ANODAL CS-3AMF	Powder	Sealing	Cobalt free product recommended for sealing anodized aluminum at room temperature, recommended for sealing baths set with hard waters.
ANODAL WL SPEC.	Liquid	Sealing	Additive recommended for sealing baths to improve haptic properties "soft touch" and scratch resistance.
ANODAL WT-1	Liquid	Waste water treatment	Flocking additive for removal of dissolved dyestuff.

ALUMINUM FINISHING ALUPRINT™ RANGE

ALUPRINT 3R

- Preparations for accurate silk screen printing on anodized aluminum surfaces.
- Formulated to lock-in multi-colored text and patterns into the anodized aluminum
- Easy to absorb solvent based dye preparations
- Suitable for indoor applications
- Printing and Dip-Dyeing combinations possible
- Surplus of printing ink must be washed off with organic solvent



	NAME
	ALUPRINT YELLOW 3R
	ALUPRINT RED 3R
	ALUPRINT TURQUOISE 3R
	ALUPRINT BLUE 3R
	ALUPRINT BLACK 3R
	ALUPRINT DILUENT LIQUID
	ALUPRINT REDUCER 3R



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