

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.

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 comprehensive 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.

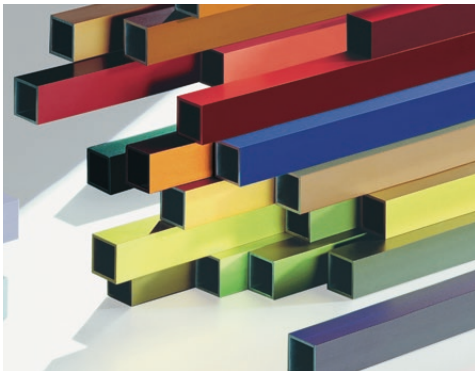
DYES

OUR DYES ARE DIVIDED INTO THREE RANGES



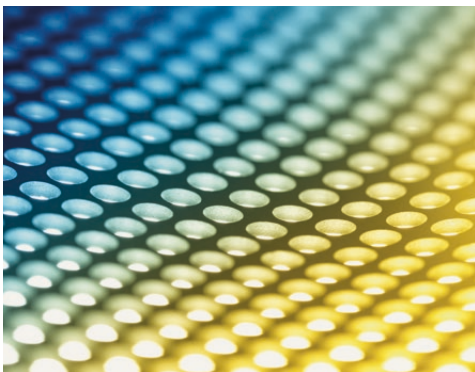
SANODAL®

- 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
	SANODAL GOLD 4N	Powder	■	■		>9*
	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
	SANODURE BORDEAUX RL	Granules		■		6-7
	SANODURE VIOLET CLW	Granules			■	6-7
	SANODYE VIOLET MRB NEW	Powder		■	■	3-4

* 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.

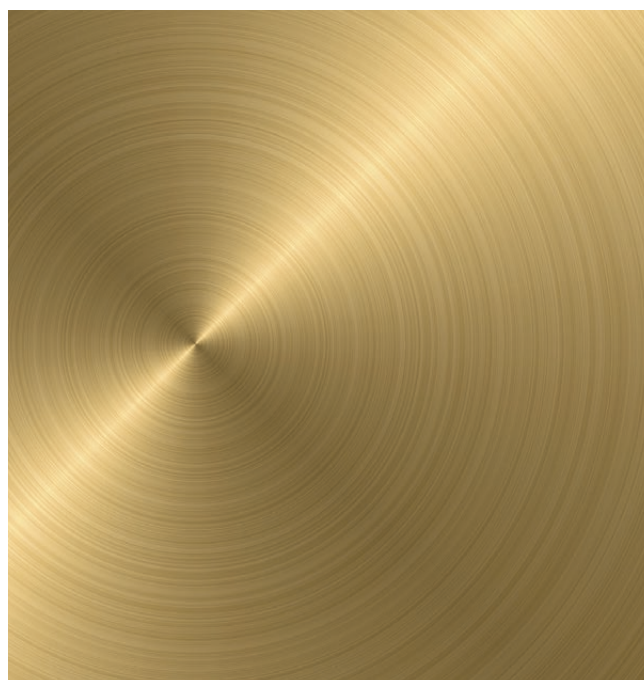
	NAME	MODIFICATION	OUTDOOR	INDOOR	HEAVY METAL FREE STRUCTURE	LIGHT FASTNESS
	SANODYE BLUE 2LW	Granules	■	■	■	>9
	SANODYE BLUE G	Granules	■	■	■	>9
	SANODAL TURQUOISE PLW LIQ.	Liquid	■	■		>9
	SANODAL GREEN 3LW	Granules	■	■		>9
	SANODURE GREEN LWN	Granules		■		7-8
	SANODURE BROWN GSL	Granules		■		6-7
	SANODURE BRONZE 2LW	Granules		■		7
	SANODURE BRONZE G	Granules		■		6-7
	SANODURE BROWN 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 HLN LIQ.	Liquid			■	7-8
	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 EC-2	Liquid	Etching	Long term etching additive, complexing and leveling additive for high aluminum loads containing etching tanks (>150 g/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 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 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 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.

Sudarshan Chemical Industries Limited
Registered Office

Eleven West Panchshil, 7th Floor, Survey No. 25,
Near PAN Card Club Road, Baner, Pune 411069 (India)

Board line: +91-20-68281200

www.sudarshan.com

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