



Sanodal[®] Yellow 3GL

Sanodal Yellow 3GL is a homogeneous, water-soluble dye which is distinguished by high fastness to light, weather and heat.

Sanodal Yellow 3GL suitable for interior and exterior architectural purposes.

Sanodal Yellow 3GL is also suitable for alloys containing silicon (Grinatal type); pleasant fast to light olive shades are obtained.

1. Dye-specific data

Commercial form:	yellow powder
Shade:	greenish yellow (lemon yellow)
Chemical character:	azo dye, heavy metal complex
Bulking volume:	750 g/l
Solubility in water:	100 g/l at 20°C
Storage stability:	virtually unlimited, store containers closed tightly
Ecotoxicological data:	see Safety Data Sheet.

2. Application conditions

	Concentration	Dyeing temperature	Dyeing time
Standard coating thickness (12 µm)	0,05 - 3 g/l	25 - 60°C	10 - 20 min
Sanodal coating thickness (25 µm)	3 - 4 g/l	55 - 60°C	30 - 45 min

pH:	5,5 ± 0,5
Buffer:	The dyebaths are preferably buffered with 8 g/l sodium acetate trihydrate + 0,4 ml/l acetic acid for pH 5.6
Water quality:	preferably deionized
Sealing:	preferably with Sealing Salt ASL (one or two stage)

3. Preparation of the dyebath

When preparing the dyebath care must be taken that the dye is well dissolved. The dye can be dissolved in deionized water (80 – 90°C) in a separate container (5 parts water to 1 part dye). This stock solution is then stirred into the dyebath.

4. Fastness of the dyeings

Sanodal Yellow 3GL is distinguished by outstanding lightfastness and heatstability.

- Lightfastness of **Sanodal** dyeings: rating > 9 (ISO 2135)
- Heatstability: no change after 12 h at 250°C/482°F.

5. Special remarks

- Unsealed dyeing can be stripped with nitric acid.
- The dyebaths are sensitive to sulphate and aluminium; anodized objects should therefore be rinsed thoroughly before dyeing.
- *Shading:*
With the exception of exterior building elements, the dye can be applied together with **Sanodal Turquoise PLW Liquid** for green shades.

6. Disposal of the dyebaths

Spent dyebaths must be disposed of; e.g. with **Anodal WT-1 Liquid**. The precipitation method is described in detail in the Technical Information bulletin for **Anodal WT-1 Liquid**.

The table below shows the additions required for precipitating **Sanodal Yellow 3GL**.

Precipitation method	FeCl ₃ , 40 % ml/g dye	Etching lye ml/g dye	Anodal WT-1 Liquid ml/g dye	Residual dye in the filtrate mg/l
A	5,0	-	2,0	~ 18
B	5,0	-	2,0	~ 25
C	-	5,0	3,0	~ 25

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The information and recommendations presented here were compiled with the utmost care, but cannot be extended to cover every possible case. They are intended to serve as non-binding guidelines and must be adapted to the prevailing conditions.