



Sanodal[®] Black OA

Homogeneous, metal free, water-soluble dye for the dyeing of anodized aluminium.

Sanodal Schwarz OA is distinguished by its high fastness to light and heat as well as by its strong dyeing power.

1. Dye-specific data

Commercial form:	black powder
Chemical character:	azo dye, not metallized
Bulking volume:	850 g/l
Solubility in water:	20 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)	10 g/l	55 - 60°C	10 - 20 min
Standard coating thickness (25 µm)	10 g/l	55 - 60°C	30 - 45 min

pH:	5.5 ± 0,5
Buffer:	The dyebaths have to be buffered with 8 g/l sodium acetate trihydrate + 0,4 ml/l acetic acid, 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. Lightfastness of the dyeings

Sanodal Black OA is distinguished by high lightfastness.

Lightfastness of **Sanodal** dyeings: rating > 8 (ISO 2135).

5. Special remarks

Unsealed dyeings are virtually unstrippable in diluted nitric or sulphuric acid.
They can be stripped in nitric acid 10 % + potassium permanganate 5 %.
After the treatment in Potassium permanganate, neutralization must be carried out for 1-5 min in a sodium bisulphite 5 % solution.

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 Black OA**.

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	Dye reduction in % related to conc. dyebath
A	2.0	-	0.7	~ 1	> 99.9
B	2.0	-	0.7	~ 400	~ 96
C	-	2.0	0,8	~ 3400	~ 66

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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.