

## **Aluminium Black 4GL** **(Technical Data Sheet)**

Aluminium Black 4GL is a black dye in powder form and gives fast striking neutral jet black shade on aluminium, which is distinguished by outstanding fastness to light, weather and heat. This dye can be used for thinner coating to get the desired jet black shade. Due to high concentration of dye the consumption is much lower cost of black anodizing of aluminium. This product assures uniform level dyeing on anodized aluminium and gives good fastness.

### **Chemical Properties:**

Physical Form	: Dry Powder
Appearance	: Dark Black Powder
Chemical Class	: Metalized azo dye.
Solubility	: > 70 g/l @ 60 C <sup>0</sup>
Light Fastness	: excellent
Heat Fastness	: excellent

### **Anodizing Recommendation:**

Coating Thickness	: 10-25 microns
Concentration	: 8-10 grams/l
Temperatures	: 55 – 60 C
pH	: 5.5 +- 0.5
Buffer	: The bath must be buffered with 8 g/l sodium acetate tri hydrate 0.4 ml/l acetic acid for pH 5.5
Time	: 5-10 Minutes.

**Water Quality** : Preferably de-ionized. Dyeing is also possible in tap water, but this can reduce the service life of dye bath

**Sealing Methods:** Hot sealing is preferred.

**Disposal of spent dye bath.** Spent dye bath must be disposed as per local law. Since this is metal complex dye containing chromium.

### **Note :**

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