



ALUDYE TURQUOISE PLW

ANODISING DYE

INTRODUCTION

ALUDYE TURQUOISE PLW is a high purity dye that produces a bright turquoise shade on anodised parts.

BENEFITS

- Bright turquoise colour
- Excellent light fastness
- Single component dye for consistent colour
- REACH and RoHS compliant

SOLUTION MAKE-UP

ALUDYE TURQUOISE PLW 2-4g/l in DI water
ALUDYE BUFFER 5ml/l

It is essential that the tanks to be used for ALUDYE TURQUOISE PLW are thoroughly cleaned and leached before any chemistry is introduced. If in any doubt as to the cleaning procedure please contact PMD Chemicals Technical Department.

1. Add DI water to tank and heat to 60°C
2. Add ALUDYE TURQUOISE PLW and mix thoroughly until fully dissolved
3. Add ALUDYE BUFFER and mix thoroughly
4. Check pH and adjust if required

OPERATING DATA

Concentration	2-4 g/l
pH	5.2-5.8
Temperature	55 – 60°C
Time	5 minutes or as required
Sealing	The dye oxide film must be properly sealed using ALISEAL CS



EQUIPMENT

Tanks	Polypropylene, Stainless Steel
Heaters	PTFE, Stainless Steel
Agitation	Mechanical or low pressure air

PROCESS SEQUENCE

1. Anodise
2. Rinse
3. ALUDYE TURQUOISE PLW, 2-4g/l, 5mins
4. Rinse
5. ALISEAL CS
6. Rinse
7. DI water rinse
8. Dry

MAINTENANCE AND CONTROL

Maintain solution level with DI water.

Additions of ALUDYE TURQUOISE PLW are added to maintain colour required

pH is maintained by the addition of dilute sodium hydroxide to raise or dilute acetic acid to lower.

ANALYSIS METHOD

Analysis is carried out using spectrophotometer.

Method

1. Prepare a standard solution at 5g/l Aludye TURQUOISE PLW.
2. Pipette 5ml of standard solution in to a 250ml volumetric flask and make up to the mark with DI water. Label as A
3. Pipette 5ml of the dye bath in to a 250ml volumetric flask and make up to the mark with DI water. Label as B
4. Measure the absorption at 620nm and record as A and B respectively.

Calculation

$$(B/A) \times 5 = \text{g/l}$$



DISPOSAL

Dispose of in accordance with local authority requirements.

PRODUCT FAMILIES

The following products are referred to in this data sheet.

PRODUCT NAME	PRODUCT NUMBER
ALUDYE TURQUOISE PLW	250035
ALUDYE BUFFER	250042
ALISEAL CS	251005

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