## Product Introduction

**ModerDirect Supra**

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### Dyeing Method

#### 1. Method I

This method is commonly employed for the majority of ModerDirect dyes.

- **Palo Shade**: 2-10 g/l NaOH
- **Medium Shade**: 10-20 g/l NaOH

#### 2. Method II

ModerDirect Black 09/Black 30 is a direct dye with a specific shade of black and is suitable for both deep and light shades.

- **Palo Shade**: 0.1-1.5 g/l NaOH
- **Medium Shade**: 1.5-2.5 g/l NaOH

#### 3. Method III

Dyeing with a more intense shade for certain applications.

- **Palo Shade**: 2-10 g/l NaOH
- **Medium Shade**: 10-20 g/l NaOH

### After Treatment

- **Direct dyes**: Suitable for both cellulose and cotton fibers.
- **Cationic dyes**: Suitable for both cellulose and cotton fibers.

### Fixing Agents

- **Polyethylene type**
- **Polyamide type**
- **Polyurethane type**

### Company Profile

ModerDirect Dyes & Pigments Co., Ltd. (MDP) was established in Thailand in 1998 by experts with expertise in the field of textile chemistry and coloration technology. The company is dedicated to developing high-quality textile dyes and pigments for the textile industry. ModerDirect’s product range includes direct dyes, acid dyes, reactive dyes, and more. The company is committed to providing high-quality products and excellent customer service. For more information, please visit www.moderdirect.com.

### Dyeing Procedure

1. **Preparation of Dye Stock Solution**
   - Dissolve 10 g of dye in 1 liter of water.
2. **Batch Dyeing**
   - **Palo Shade**: 2-10 g/l NaOH
   - **Medium Shade**: 10-20 g/l NaOH
3. **After Treatment**
   - **Direct dyes**: Suitable for both cellulose and cotton fibers.
   - **Cationic dyes**: Suitable for both cellulose and cotton fibers.

### Dyebath Conditions

- **Temperature**: 90°C
- **Time**: 30 min
- **pH**: Adjusted to 9-11

### Notes

- The information provided is subject to change based on our continuous research, development, and feedback from our partners. Customers are encouraged to consult with our experts for any specific requirements or recommendations.
- All products are tested and monitored to ensure compatibility and performance.
- Any modifications to the products are subject to approval by ModerDirect's quality control department.