

How to Dye Cotton/Spandex[®] Blends Using a One-Bath/Two-Step Dyeing Procedure with Orcolitefast[™] and Orcolan Neutral[™] Dyes

This procedure provides medium fastness for medium to heavy shades. A one-bath/one-step procedure is available for light to medium shades with lower fastness.

In any procedure involving Spandex[®], the temperature should not exceed 200°F(93°C) as it may degrade the integrity of the spandex.

1. Prepare goods as necessary. Since the Spandex[®] typically comes from the factory in a clean white state, a general prescour should be sufficient. The cotton portion will probably require a scouring and possibly a bleaching if light or pastel shades are desired.
2. In a fresh bath at 100°F(38°C), add:
 - X % owg **Orcolan Neutral[™]** dyes properly prepared
 - 5 % owg Ammonium Sulfate
 - 1 % owg **Orco Salt O Solution[™]**
3. Circulate for 10 minutes.
4. Slowly raise temperature to 190-195°F(88-90°C) and run for one hour. After 30 minutes, acetic acid may be added to promote exhaustion of the dye.
5. Cool the bath to 140°F(60°C) and add:
 - 5 % owg Glauber's Salt
 - X % owg **Orcolitefast[™]** dyes properly prepared
6. Adjust pH to 8.5 with soda ash, slowly raise temperature to 190-195°F(88-90°C), and run for 30 minutes.
7. Over 45 minutes, add 30% owg Glauber's Salt in three equal increments.
8. Cool bath to 120°F(49°C) and overflow rinse cold until clear.