



ORGANIC DYESTUFFS CORPORATION

ORCO LANAMIDE DYES

FOR

WOOL & NYLON

COLORANTS FOR ALL INDUSTRIES

www.organicdye.com

1-800-556-6785

Orco Lanamide colors are a selected group of non-chrome, non hazardous acid dyes designed for use on wool, nylon and blends thereof. These colors build well together especially when the primaries are used, and offer excellent lightfastness and wetfastness.

NYLON .50%	NYLON 1.0%	NYLON 3.0%	ORCO LANAMIDE	LIGHTFASTNESS	I/A WASHFASTNESS	PERSPIRATION	CHLORINATED POOL	SEA WATER
			YELLOW Y	6-7 (L) 6-7 (M) 6-7 (H)	4-5 (A) 4 (S)	3-4 (A)	5	4-5 (A)
			YELLOW GY	5 (L) 5-6 (M) 6 (H)	4-5 (A) 4 (S)	4 (A) 3 (S)	3-4	3-4 (A) 2-3 (S)
			YELLOW VG	5 (L) 5-6 (M) 6 (H)	4-5 (A) 5 (S)	5 (A) 4-5 (S)	4-5	5 (A) 4-5 (S)
			RED R	4-5 (L) 5 (M) 5-6 (H)	4 (A) 3 (S)	3-4 (A) 2 (S)	4	3-4 (A) 2 (S)
			RED 2B	5-6 (L) 6 (M) 6-7 (H)	4-5 (A) 2-3 (S)	5 (A) 3-4 (S)	4-5	4-5 (A) 3 (S)
			RUBINE RB	5 (L) 5-6 (M) 6 (H)	4-5 (A) 3-4 (S)	4-5 (A) 4 (S)	4-5	3-4 (A)
			BLUE BR	6 (L) 6-7 (M) 7 (H)	4-5 (A) 3-4 (S)	3-4 (A) 2-3 (S)	3	3-4 (A) 2-3 (S)
			BRILLIANT BLUE RR	5-6 (L) 6 (M) 6 (H)	4-5 (A) 2-3 (S)	5 (A) 5 (S)	4-5	4-5 (A) 4 (S)
			BRILLIANT BLUE XT	5 (L) 6 (M) 6-7 (H)	4-5 (A) 3 (S)	4-5 (A) 4 (S)	4-5	4-5 (A) 3-4 (S)
			*TURQUOISE TQ	2 (L) 2-3 (M) 2-3 (H)	4 (A) 4 (S)	4-5 (A) 4 (S)	4-5	4 (A) 4-5 (S)
			**GREEN CB	5-6 (L) 6 (M) 6-7 (H)	3-4 (A) 4-5 (S)	4-5 (A) 4 (S)	5	5 (A) 5 (S)

Orco Lanamide Dyeing Procedure on Nylon

Goods Preparation: Goods heavily contaminated with spinning oils or heavily soiled should be pre-scoured at 120-140°F with 0.5-1.5% owg **Orconol CHSA Conc.** The addition of 0.2-0.25% owg of soda ash is recommended.

Dye Bath preparation: 1.0-2.0% (Med-Dark Shades 1.0% / Pastels 2.0%) owg **Orco Dye Assist 10-4** x% owg Acid to pH 5.5-6.5 (Citric, Formic or Acetic). Circulate goods at 100°F for 10-15 minutes in chemical bath. Add pre-dissolved **Orco Lanamide** colors and continue to circulate for 10 minutes. Raise temperature slowly to 175°F and hold for 10 minutes. Raise temperature slowly to 205-210°F. After 15-20 minutes into the cycle, add 1-1.5% owg acid to medium/dark shades if necessary. Cool back to 170°F and over-flow rinse till clear, especially on heavy shades.

Optional After-Fix Procedure: The use of 1.5% owg **Orcofix MN-SS** as an after-treatment will improve wetfastness of heavier shades at least 1-1.5 points. After goods are thoroughly rinsed, prepare a fresh bath as follows: 1.5% owg **Orcofix MN-SS**. Adjust pH to 4.5 with acetic or citric acid. Raise temperature to 160°F and hold for 20 minutes. Drop bath and rinse.

*When used in conjunction with other Lanamides such as Yellow GY, some blocking may occur and additional acid, as well as increased run time may be necessary for exhaustion. Also a more prolonged rinse time in conjunction with an after-fix step may be necessary to improve wet and crock fastness.

**Green CB tends to exhaust at a higher rate than the regular Lanamides, therefore care should be taken to have a starting pH of no lower than 5.5-6.0. A 15-minute stop-hold step at 160°F prior to raising to 205°F will help increase penetration and minimize surface strike.

WOOL .50%	WOOL 1.0%	WOOL 3.0%	ORCO LANAMIDE	LIGHTFASTNESS	I/A WASHFASTNESS	PERSPIRATION	DECATING	CARBONIZING
			YELLOW Y	6-7 (L) 6-7 (M) 6-7 (H)	4 (A) 4-5 (S)	4-5	4	4-5
			YELLOW GY	5-6 (L) 5-6 (M) 6 (H)	3 (A) 3-4 (S)	3	4-5	4
			YELLOW VG	5 (L) 6 (M) 6-7 (H)	4-5 (A) 5 (S)	4-5	4-5	4
			RED R	4 (L) 4-5 (M) 5 (H)	4 (A) 4-5 (S)	5	4-5	4-5
			RED 2B	6 (L) 6 (M) 6-7 (H)	4-5 (A) 3-4 (S)	5	4	4
			RUBINE RB	3 (L) 4 (M) 5 (H)	5 (A) 5 (S)	5	4-5	-
			BLUE BR	5-6 (L) 6 (M) 6-7 (H)	4 (A) 4 (S)	4-5	4-5	4-5
			BRILLIANT BLUE RR	5-6 (L) 6 (M) 6 (H)	3 (A) 3 (S)	4-5	5	5
			BRILLIANT BLUE XT	5 (L) 6 (M) 6-7 (H)	3-4 (A) 4-5 (S)	4-5	4-5	4
			*TURQUOISE TQ	3 (L) 3-4 (M) 4 (H)	4-5 (A) 5 (S)	4-5	4-5	4-5
			**GREEN CB	5-6 (L) 6 (M) 6-7 (H)	3-4 (A) 4-5 (S)	4-5	5	5

Orco Lanamide Dyeing Procedure on Wool and Wool/Nylon Blends

Goods Preparation: The pH of carbonized goods should be raised to at least 4.5 (isoelectric point) with either soda ash or a suitable buffering agent. This may be accomplished in either the fulling mill or in the dye process prior to adding the dye bath chemicals or dyestuffs. The use of .5% owg of **Orconol CHSA Conc** or 1.0% owg of **Orco Citrosolve DL-AAS** (if goods are high in oil content) will improve the neutralization without interfering with the dye bath if an over-flow rinse is not used.

Dye Bath preparation: Circulate goods at 100°F for 15 minutes in a chemical bath containing 1.0-2.0% (Med-Dark Shades 1.0% / Pastels 2.0%) owg **Orco Dye Assist 10-4**, 1.0-1.5% owg **Orco Nylon Resist P** (used only on wool/nylon blends) and x% owg Acid to pH 4.5-6.0 (Citric, Formic and Acetic). Add pre-dissolved **Orco Lanamide** colors and continue to circulate for 10 minutes. Raise temperature slowly to 175°F and hold for 10 minutes. Raise temperature slowly to 205-210°F. After 15-20 minutes into the cycle, add 1-1.5% acid to medium/dark shades if necessary. Cool back to 170°F and over-flow rinse till clear, especially on heavy shades.

Optional After-Fix Procedure: The use of 1.5% owg **Orcofix MN-SS** as an after-treatment will improve wetfastness of darker shades at least 1 point, especially on wool/nylon shades. After goods are thoroughly rinsed, prepare a fresh bath using 1.5% owg **Orcofix MN-S**. Adjust pH to 4.5 with acetic or citric acid. Raise temperature to 160°F and hold for 20 minutes. Drop bath and rinse.

Fastness Ratings: All wetfastness ratings are based on goods that have not been after-treated with any fixing agent.

Key abbreviations: (A) Alteration (S) Staining Depth of Shade (L) Light (M) Medium (H) Heavy



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*Organic Dyestuffs Corporation offers the DyeSelect® CD-ROM program on a complimentary basis to their customers and other qualified parties who request the program. DyeSelect® is an interactive reference tool containing over 4000 pages of information enabling a textile industry user to select dyes, pigments, colorants, chemicals, and procedures for common fibers and blends. Provided on CD-ROM and designed for PC-Windows computers, the DyeSelect® program uses an intuitive interface to lead the user step by step through the selection of procedures and products for substrate preparation, dyeing and finishing of a wide range of textile fibers and blends. A complete description of each dye class, and a comprehensive index to more than six hundred ORCO chemical auxiliaries, dyes, optical whiteners, pigments, and specialty non-textile dyes, enables users to decide which product and process is best for their particular need. The program enables the user to access and print out all procedures, sample request forms for specified products, Technical Bulletins on all products (including physical properties), and Material Safety Data Sheets(MSDS). A helpful Tech Center section contains dyestuff/fiber facts, dye and chemical substitutions, technical references, information on specialty direct and acid dyes, and a table of commonly used chemicals, including their common names, formulas, pH of various products, and their application. The Tech Center also contains conversion tables for weight, temperature and measurement.

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