

### ORCO REACTIVE R-SERIES™ Reactive Dyes for Cotton

Shade	Color Index Name	Orco Reactive R-Series™	Fixation Temp. (Deg F)	Solubility		Lightfastness (@ 2% owf)	Washfastness		Croaking		Acid Perspiration	Chlorinated Pool	Affinity	Alkaline Dischargeability	Metal Complex	Staining	
				Dye	Dye+Com. Salt		IIA	IIIA	Wet	Dry						Nylon	Polyester
	No CI	Black GR	140	100 g/l	60 g/l	6	4-5	4-5	3	4-5	5	3-4	H	4	No	3	5
	No CI	Black GR 25% Liquid	140	-	-	6	4-5	4-5	3	4-5	5	3-4	H	4	No	3	5
	Reactive Black 5	Black RB	140	100 g/l	100 g/l	5	4-5	4-5	3	4	4	3-4	VH	5	No	4	4-5
	Reactive Black 5	Black RB Liquid 25%	140	-	-	5	4-5	4-5	3	4	4	3-4	VH	5	No	3-4	4-5
	Reactive Black 31	Black RRL	140	100 g/l	100 g/l	5-6	4-5	4	3	4	4	2	VH	3	Y	3-4	4-5
	Reactive Blue 19	Blue RW Special	140	75 g/l	10 g/l	6	5	5	5	5	5	2	VH	3-4	No	4	5
	Reactive Blue 21	Turquoise RP	175	40 g/L	15 g/L	4	3-4	3	4	5	5	1-2	H	4	Y	3	4-5
	Reactive Blue 21	Turquoise RP Liquid 33%	175	-	-	4	3-4	3	4	5	5	1-2	H	4	Y	3	4-5
	Reactive Blue 203	Navy Blue RGB	140	70 g/l	30 g/l	4-5	4-5	4-5	4	4-5	4-5	1-2	VH	4-5	No	4	5
	Reactive Blue 203	Blue RGB 25% Liquid	140	-	-	4-5	4-5	4-5	4	4-5	4-5	1-2	VH	4-5	No	4	5
	Reactive Brown 18	Brown RGR	140	80 g/l	50 g/l	5-6	4	3	4	4-5	4	1	H	4	Y	4	5
	Reactive Orange 16	Orange 3RA	140	80 g/l	40 g/l	4-5	5	4-5	4	5	4	3	H	5	No	3	5
	Reactive Orange 16	Orange 3RA Liquid 25%	140	-	-	4-5	5	4-5	4	5	4	3	H	5	No	3	5
	Reactive Orange 78	Orange R3G	140	60 g/l	20 g/l	5	4-5	4-5	4	4-5	4-5	3	H	4	No	3-4	4-5
	Reactive Orange 82	Orange RFR	140	80 g/l	15 g/l	4-5	5	4-5	4	4-5	5	1-2	VH	5	No	4	4-5
	Reactive Red 21	Brilliant Red RBR	140	40 g/L	15 g/L	5	5	4-5	4	4-5	4-5	2	H	4	No	4	4-5
	Reactive Red 49	Bordeaux RB	140	80 g/l	30 g/l	6-7	4-5	4	4-5	5	4	5	VH	4	Y	4	5

(owf) = on weight of fabric

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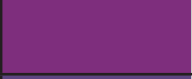





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## ORCO REACTIVE R-SERIES™ Reactive Dyes for Cotton

Shade	Color Index Name	Orco Reactive R-Series™	Fixation Temp. (Deg F)	Solubility		Lightfastness (@ 1% owf)	Washfastness		Croaking		Acid Perspiration	Chlorinated Pool	Affinity	Alkaline Dischargeability	Metal Complex	Staining	
				Dye	Dye-Com. Salt		IIA	IIIA	Wet	Dry						Nylon	Polyester
	Reactive Red 180	Brilliant Red RF3B	140	80 g/l	30 g/l	5-6	5	4-5	4	4-5	5	4	VH	4-5	No	4	4-5
	Reactive Red 198	Red RB	140	80 g/l	30 g/l	5	5	4-5	4	4-5	5	2-3	H	2-3	No	4	5
	No CI	Red R3BS	140	80 g/l	30 g/l	5-6	5	4-5	4	4-5	5	4	VH	4-5	No	4	4-5
	Reactive Violet 5	Violet R5R 120%	140	80 g/l	80 g/l	6	4-5	4	4	4-5	4-5	4-5	H	5	Y	4	4-5
	No CI	Violet R4B	140	60g/l	20 g/l	5	4-5	4	4	4-5	4	3	H	-	Y	3	4-5
	Reactive Yellow 15	Yellow RGR 110%	140	100 g/l	100 g/l	5	4-5	4	4	5	5	2-3	H	5	No	4	5
	Reactive Yellow 17	Golden Yellow RGA	140	100 g/l	20 g/l	5-6	4-5	4-5	3	4	5	2-3	H	4	No	3-4	5
	Reactive Yellow 37	Brilliant Yellow RGL	140	50 g/l	15 g/l	6	5	4	4	4-5	5	2-3	M	4-5	No	4	5
	Reactive Yellow 160	Brilliant Yellow R4GL 150%	170	40 g/l	5 g/l	6	5	4	4	5	5	2-3	VH	4	No	4	5

((owf) = on weight of fabric

Actual dye samples must be evaluated in a laboratory on medium to be dyed in production for accurate shade and physical property results. Shades shown on print material and computer monitors are for general reference only as they are inherently inaccurate due to calibration variations and technical limitations of monitors and printers.