Tecofix	0.5%	2%	C.I.	Xenonlicht Xenon lamp	Wäsche Washing 60 °C			Schweiss Perspiration acidic/sauer			Schweiss Perspiration alk./alk.			Chlorbadewas. Chlorinated bath water	Bleiche Bleaching Peroxid/peroxide		Mercerisieren Mercerising
			Reactive	1/1 RTT/SD	N	CO	WO	N	CO	WO	N	CO	WO	20 mg/l	Soda	NaOH	N
Gelb HE-6G Yellow HE-6G			Y 135	4-5	4	5	5	4-5	4-5	4-5	4-5	5	5	2-3	2-3	2-3	5
Gelb HE-4G Yellow HE-4G			Y 105	4-5	4-5	5	5	4-5	5	4-5	4-5	4-5	5	2-3	3-4	2-3	5
Gelb HE-4R Yellow HE-4R			Y 84	5	4-5	5	5	4-5	4-5	5	4-5	4-5	5	4	4-5	4-5	4
Orange HE-R Orange HE-R			0 84	4	4-5	4-5	4-5	4	4-5	4-5	4	4	4-5	3-4	4-5	4-5	5
Rot HE-3B Red HE-3B			R R 120	5	5	4-5	4	4-5	4	4-5	4-5	4-5	5	4	4	4	5
Rot HE-7B Red HE-7B			R R 141	4-5	5	4	4-5	4-5	4-5	4-5	5	4-5	5	4	4-5	4	4-5
Blau HE-F Blue HE-F			R B 198	5	4-5	4-5	5	4-5	4	4	4-5	4	4-5	1	4	3-4	5
Blau HE-BN Blue HE-BN			R B 160	5-6	4	3-4	4-5	4-5	3-4	4	4-5	3-4	4	3	3	2-3	4
Marineblau HE-R 150% Navy HE-R 150%			R B 171	5	5	4	4-5	4-5	4-5	5	4	4-5	5	3-4	4	4	4-5

Tecofix HE dyestuffs are reactive dyestuffs of the monochlorotriazine type.
They are mainly recommended for exhaust dyeing methods and are especially known for their high migrating and penetrating power.

Explanation of the fastness

N = change of shade
CO = staining of cotton
WO = staining of wool

Light fastness ISO 105 – B04	Washing 60 °C ISO 105 - C03
Perspiration fastness ISO 105 – E04	Chlorinated bath water ISO – E03
Bleaching, peroxide 5.0 ml/l peroxide 30 % 30 min at 90 °C plus: Soda formula: pH 9 with soda NaOH formula: 2 ml/l NaOH 38 °Bé	Mercerising ISO 105 – X04

The fastness tests were carried out on dyeings at 1/1 standard depth of shade.

Recommended chemicals:

Alviron GBU	Multifunctional special product for pretreatment, bleaching and dyeing. Anionic
Alviron FLD	Skin-friendly, environmentally compatible special product for pre-treatment, bleaching and dyeing. Anionic.
Alviron VKS	Deaerating and foam suppressing agent for textile wet finishing processes. Nonionic
TC-Fix and Wash RF	Special product for fixing and soaping of reactive dyestuffs. Not surface active

Dyeing process

Depth of shade	Additions in g/l		
	TC-Fix and Wash RF*	Glauber's salt calc.	
		Cotton	*Viscose*
up to 0.5 %	2.0	20 - 30	10 - 20
0.5 - 1.0%	3.0	30 - 40	20 - 30
1.0 - 2.0%	3.0 - 4.0	40 - 50	30 - 40
2.0 - 4.0%	4.0	50 - 80	40 - 60
above 4.0%	5.0	80 - 100	60 - 80

* pay attention to the indications on the technical data sheet

Standard process

Set bath at 50 °C

Put first
0.5 to 2.0 g/l Alviron GBU
0.5 to 2.0 g/l Alviron FLD
0.5 to 2.0 g/l Alviron VKS

Run for 10 min

Add the dissolved dyestuff within 15 to 20 min

Run for 10 min

Heat up to 80 – 85 °C at 1.0 - 1.5 °C/min

Add salt in 3 portions

Run for 20 to 30 min

Add 1/3 of the TC-Fix and Wash RF amount

Run for 15 min

Add remaining amount of TC-Fix and Wash RF

Run for 30 to 45 min

Rinse with overflow

Migration process

Set bath at 50 to 60 °C

Put the whole salt amount first

Add
0.5 to 2.0 g/l Alviron GBU
0.5 to 2.0 g/l Alviron FLD
0.5 to 2.0 g/l Alviron VKS

Heat quickly to 80 °C – 85 °C

Add the dissolved dyestuff within 15 to 20 min

Run for 10 min

Add 1/3 of the TC-Fix and Wash RF amount

Run for 10 min

Add remaining amount of TC-Fix and Wash RF

Run for 30 to 45 min

Rinse with overflow

In order to achieve an optimal fastness on the dyeings, they have to be rinsed thoroughly and aftersoaped with TC-Fix and Wash RF at temperatures between 90 °C and 95 °C. Rinse and neutralise after soaping.