

---

## REDULIT RED

<b>Character</b>	Reduction agent for afterscouring PES in the dyeing bath
<b>Chemical Character</b>	Sulphinic acid derivate
<b>Appearance</b>	Colourless, clear liquid
<b>Ionic Character</b>	-
<b>pH Value</b>	9.0 - 11.0
<b>Specific Weight at 20 °C</b>	1.21
<b>Stabilities</b>	<p>If REDULIT RED gets in contact with concentrated, strong acids, toxic gases may develop. Avoid the contact with oxidation agents.</p> <p>The product is sensitive to frost to a certain extent; changes occurring at low temperatures disappear when the product is warmed up and after it has been stirred thoroughly.</p> <p>REDULIT is sensitive to temperatures as of 40 °C.</p>

---

The above given values are product describing data. Please consult the 'delivery specification' for binding product specifications. Further data about product properties, toxicological, ecological data as well as data relevant to safety can be found in the safety data sheet.

### Properties

REDULIT RED is a reduction agent used for afterscouring PES in an acid dyeing bath. It can be applied as well for the reductive afterscouring of polyacrylonitrile. The product is also highly suitable for the reductive cleaning of blends of PES with wool, CO, polyacrylonitrile, etc.

### Application Technique

#### Diluting Instructions

REDULIT RED is miscible with water at any ratio. It can be added directly to the treatment liquors without predilution. Prepared cold solutions are stable for 1 – 2 days. After having taken out some quantity, the containers ought to be closed again.

#### Application Fields

REDULIT RED is a liquid reduction agent for afterscouring PES dyeings. Its effect is best within the pH range of 4.0 – 4.5. After dyeing the bath is cooled down to 70 – 80 °C. The pH value of this bath is adjusted to 4.0 – 4.5. The addition of 2.0 ml/l acetic acid 60% proved best to achieve the correspondingly stable pH value.

REDULIT RED is added to this liquor and the unfixed disperse dye is largely eliminated from PES together with soilings from silk, elastane, CO, wool, etc. Thus, fastnesses are achieved which correspond in most cases to a reductive afterscouring with caustic soda/ hydrosulphite. In case of very deep navy and black dyeings the fastness results may be slightly worse. Since this strongly depends on the dye, preliminary trials ought to be carried out.

REDULIT RED does not foam and can thus be applied on all dyeing machines. Its application on jets is possible without any problems because of its stability to air.

REDULIT RED does not saponify oligomers. In case of oligomer problems we recommend applying SARABID OPTI in the dyeing bath or INTENSOL OLI for reductive afterscouring (see technical leaflet of INTENSOL OLI).

Various advantages such as time, water and energy savings can be achieved by applying REDULIT RED in the cooled down dyeing bath (80°C).

### **Recommendation for Use**

The application quantity of REDULIT RED depends on the colour depth and the dyes. After the dyeing bath has cooled down to 70 - 80 °C, 2.0 ml/l acetic acid 60% are added. For medium colour depths 1.0 – 1.5 ml/l REDULIT RED are added, and for dark shades 2.0 ml/l. After 10 – 20 min at 70 – 80 °C the fabrics are rinsed hot and cold.

The addition of 1.0 – 2.0 g/l SARABID DLO CONC improves the fastness furthermore. Due to the dye affinity of the product unfixed and destroyed dye is detached more thoroughly and kept in the treatment liquor.

**We reserve the right to modify the product and technical leaflet.**

**Our department for applied technique is always at your service for further information and advice.**

Our technical advice and recommendations given verbally, in writing or by trials are believed to be correct. They are neither binding with regard to possible rights of third parties nor do they exempt you from your task of examining the suitability of our products for the intended use. We cannot accept any responsibility for application and processing methods which are beyond our control.

Edition: May 2024

CHT GERMANY GMBH, P.O. Box 12 80, 72002 Tübingen, Bismarckstraße 102, 72072 Tübingen, Germany

Telephone: 07071/154-0, Fax: 07071/154-290, Email: [info@cht.com](mailto:info@cht.com), homepage: [www.cht.com](http://www.cht.com)

CHT TURKEY KİMYA SAN. VE TİC.A.Ş., Akçaburgaz Mah. 3118. Sok. No:2 Esenyurt/İstanbul, Tel: +90 212 886 79 13, Fax:+90 212 886 93 47,

Email: [info.turkey@cht.com](mailto:info.turkey@cht.com)