Carpet Solutions: Introduction
Dyeing and printing of carpets requires specific solutions

Make your carpet colorful!
DyStar’s dye range selection

- Telon®
- Isolan®
- Dianix®
- Realan®
- Isolan 2S
- Isolan NHF-S / S
- Supralan®
- Astrazon® / Telon CD
- Telon A
- Telon M
- Telon CP / Isolan CP
Carpets Solutions: Introduction

Application process

- Space dyeing
- Printing
- Digital Printing
- Continuous dyeing
- Exhaust dyeing
As a leading provider of products and services for the textile industry, DyStar offers customers a complete package of carefully matched products.

Optimal solutions are available for all carpet manufacturing requirements.

Continuous development work ensures that innovative products for the entire production chain are added to the product range and adapted to the needs of the carpet industry.

Dyes from DyStar allow high-quality yet economical dyeing and printing of carpets. They meet highest quality standards and have highest application properties. We market the following product ranges for carpets:

**Telon® – Isolan® – Supralan® – Astrazon® – Dianix® – Realan®**

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**Dyeing and Printing of Carpets**

- **Exhaust dyeing**
  - Telon
  - Telon A
  - Isolan
  - Isolan NHF-S
  - Isolan 2S
  - Supralan
  - Dianix
  - Realan
  - Telon CD
  - Astrazon
  - Sera®, Evo®
  - Process auxiliaries

- **Continuous dyeing**
  - Telon
  - Telon A
  - (Telon M dyes)
  - Isolan
  - Isolan NHF-S
  - Isolan 2S
  - Dianix
  - Realan
  - Supralan
  - Telon CD
  - Astrazon
  - Sera-, Evo®
  - Process auxiliaries

- **Printing/Chromojet**
  - Telon
  - Telon A
  - Telon M
  - Telon/Isolan CP
  - Isolan
  - Isolan NHF-S
  - Isolan 2S
  - Supralan
  - Dianix
  - Realan
  - Astrazon
  - Sera-, Evo®
  - Process auxiliaries

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DyStar dyestuff selection

Our product ranges include the most common classes of dyes and offer ideal solutions for the majority of carpets:

➤ PA carpets for home residential sector
➤ PA carpets for the contract sector
➤ Wash fast PA carpets (washing at 80°C-95°C)
➤ WO and PA carpets
➤ PAN carpets
➤ PES carpets / CDP carpets
➤ PA, PES and PAN automotive carpets

The dye selection should be based on the following criteria:

➤ Substrate / type of fiber
➤ Fiber blends
➤ Dyeing process
➤ Fastness properties
➤ Fixation (dyeing and printing)
➤ Energy required to fix dyes
➤ Brilliance
➤ Ecological aspects
➤ Price

Our new internet tool

eliot® is the latest addition to DyStar’s extensive collection of specialized tools that enable clients to make informed product choices. Our newly developed, internet-based tool provides guidance on product selection as well as process optimization. Free to use, eliot was developed by consolidating different expert systems and information databases into one comprehensive function for our customers with four modules:

The Positive Lists Module

Search through a selection of recommended DyStar products that are compliant with brand and retailer Restricted Substances Lists or selected eco-standards such as bluesign® and GOTS. eliot lets users apply search filters or sort through product lists.

The Product Finder Module

Users can search through DyStar products based on their technical properties. This module enables them to narrow down the products that match their desired fastness criteria and dyeing or application performance. User selections can be a combination of both fastness and dyeing properties; and results can be exported to Excel.

The Optidye® Programs

Users can access recipes and process optimization tips to help shorten their dyeing cycles and reduce effluent load. Optidye programs were designed to improve the reliability of the dyeing process for better right-first-time processing and improved quality of finished products.

Information

eliot also gives users direct access to product information categorized by industry segments including active wear, technical textiles, denim, work wear, carpet, digital printing, home textiles, automotive and fashion. A variety of shade cards and brochures can also be found in the Information file.
### Carpet Dyeing Solutions

**Telon® and Telon A dyes**
Monosulphonated dyes for pale to medium shades with very good covering of barriness, very good levelling, migration properties and high light fastness level.

**Telon M dyes**
Full line of high fastness super milling dyes for optimum wet-fastness and brilliant shades.

**Isolan® dyes**
Full extensive line of high wet and light fast pre-metallized dyes for optimum performance on commercial carpets.

**Isolan CP & Telon CP dyes**
Designed for optimum performance on Digital Printing, full range of high-strength low salt dyes to reduce thickener usage.

**Supralan®**
Supralan range comprises 1:2 metal-complex and acid (milling) dyes covers virtually the whole color spectrum. Good choice of standard dye system against classic competition dye systems in the market.

**Telon CD dyes**
Focused line of acid dyes for the differential dyeing of polyamide carpet.

**Astrazon® dyes**
Unique line of cationic dyeable polyamide dyes for the contrast and differential dyeing as well as for cationic dyeable polyester.

**Dianix® dyes**
High light fastness and high build up disperse dyes for exhaust and continuous application on polyester, recycled polyester and PTT fiber.

**Realan®, Levafix® and Remazol® dyes (selected items)**
Selected reactive dyes with highest wet fastness level on polyamide and wool.
Dye selection for the main carpet fibers

- Polyamide – Telon®/Isolan®
- Polyamide – Telon CP/Isolan CP
- Polyester – Dianix®
- Cationic Dyeable Polyester (CDP) – Astrazon®
- Wool – Telon/Supralan®
Committed to Sustainability
At DyStar, our products and services help customers worldwide reduce costs, shorten lead times and meet stringent quality and ecological specifications.

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