

Amtex[®]
Dye-Chem Industries
Differentiate Yourself



AMRON[®] P
●●●

Reactive Dyes for Printing

AMTEX, a globally recognised manufacturer of printing inks, is proactively investing in digital printing, emphasising innovation, creativity, quality, and sustainability. Leveraging our expertise, we offer economic advantages alongside expanded design possibilities, thereby unlocking fresh business prospects in digital textile printing.

Professionally, the realm of digital textile printing stands as the swiftest expanding sector within textile printing. More and more printing mills are transitioning from traditional to digital methods. AMTEX offers a comprehensive range of production capabilities, including salt-free powders and customised inks tailored to the specific requirements of leading digital print-head brands. With our diverse array of products such as AMRON HF, AMRON HR2D, AMECTIVE SF, AMRON P, MIINDEQ, and MIINDEQI, we address all facets of colour chemistry across various textile environments.

AMTEX boasts production capabilities encompassing salt-free dye powders and customised inks tailored to the specific requirements of leading digital print-head brands

At Amtext, we are dedicated to elevating chemistry and driving innovation through our specialised application and research and development laboratory, ensuring the utmost quality and consistency.

Precision. Performance. Perfection. Explore our specialised colour chemistry solutions!

Benefits from AMTEX's Printing Expertise



Faster Response to Market Demands.



Minimise Risk of Stockouts.



Establishing collaborative networks with industry-leading machinery manufacturers, digital printing process houses, textile sectors, training centres, and renowned brands.



Advanced research and development laboratories dedicated to purifying dyes and pioneering process advancements.





Reactive Dyes for Printing

This premium range of reactive dyes, featuring monochlorotriazine reactive groups, is perfect for textile printing. Available in both liquid and solid forms, Amron® P reactive dyes ensure safe and reliable dosing, whether administered manually or through automated colour kitchen systems.

Amron® P dyes are versatile and can be utilised in various processes, making them suitable for fabrics composed of the following fibres:



Natural cellulosic fibres, such as cotton.

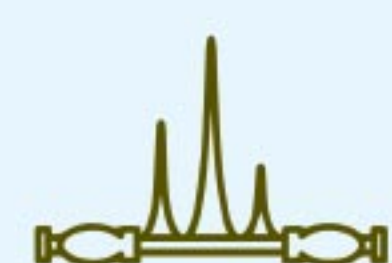


Regenerated cellulosic fibres, such as viscose.



Protein fibres, such as silk and wool.

Amron® P reactive dyes are created using a cutting-edge physical formulation designed to enhance productivity, quality, industrial hygiene, and environmental safety:



Highly valued for its exceptional brightness and superior quality, attributed to its high HPLC standards



Complete printing product line ensuring lightfastness, even for lighter shades



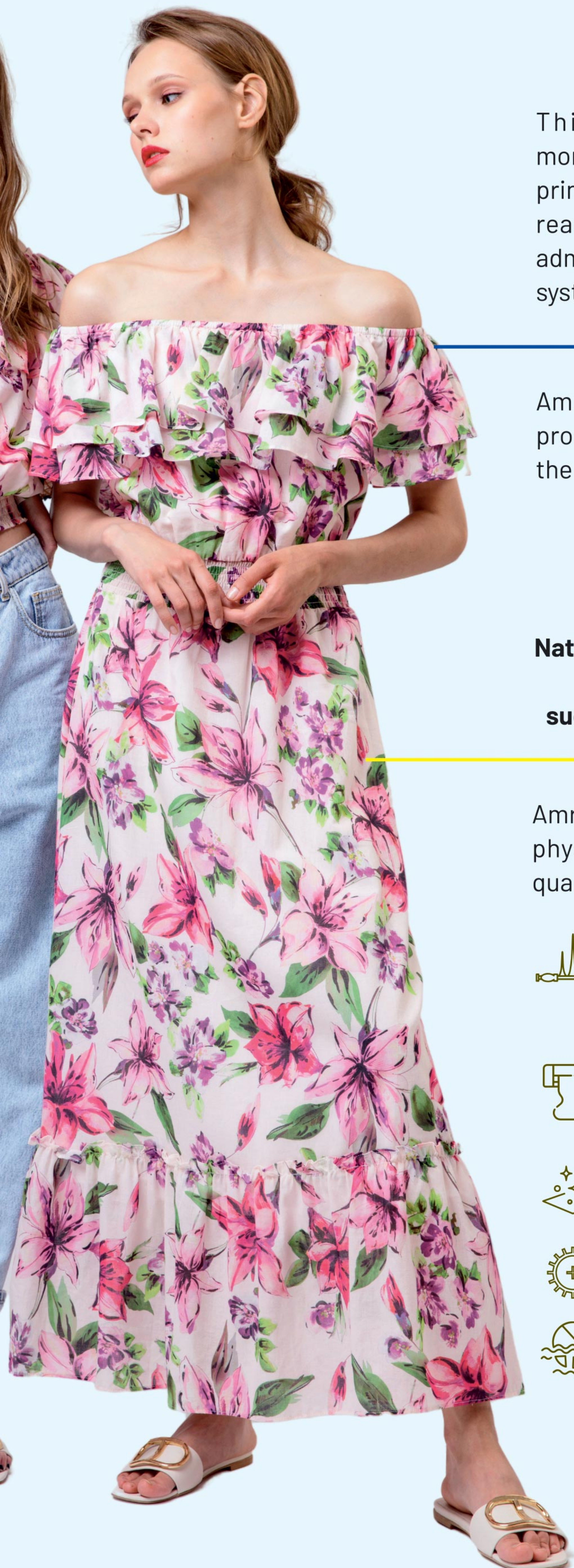
Possess superior build-up characteristics and exceptional wash-off properties.



Outstanding colourfastness qualities
















Easy to dissolve with high solubility





Reactive Dyes for Printing

 Amron® Yellow P6GS		% O.W.P.	Solubility gpl at 30°C	Light Fastness AATCC 16 Option 3, 20 AFU		Light Fastness ISO 105-802	
				1/1	1/6	1/1	1/6
	Amron® Yellow P2RN	3.0	150	4-5	4	5-6	4-5
	Amron® Orange P2R	3.0	150	4	3	4-5	3
	Amron® Brown P6R	3.0	150	4-5	4	5	4-5
	Amron® Brown PLN	3.0	150	4-5	4	5	4-5
	Amron® Red PBN	5.0	150	4	3-4	4-5	3-4
	Amron® Red P4B	5.0	150	4	3-4	4	3-4
	Amron® Red P6B	5.0	150	4	3-4	4	3
	Amron® Blue P3R	5.0	150	4-5	4-5	5-6	5-6
	Amron® Turquoise PGR	5.0	150	4-5	4	6	4-5
	Amron® Navy Blue P2R	5.0	150	4-5	3	4-5	-
	Amron® Black PSG	2.0	150	4	3	4-5	3
	Amron® Black PGR	6.00	150	4-5	-	5-6	-

Light Fastness M&S C9		Light Fastness M&S C9A		Rubbing Fastness ISO 105-X12		Fastness to Perspiration 150 105-E04		Fastness to Washing ISO 105-C06-C25	Fastness to Water ISO 105-E01	Oxidative Bleach Damage M&S C10A	Cholorinated Pool Water ISO 105-E03-20ppm
1/1	1/6	1/1	1/6	Dry	Wet	Acid	Alkali				
4	4	4-5	4-5	4-5	4	4-5	4-5	4-5	4-5	4-5	4
4	4	4-5	4-5	4-5	4	4-5	4-5	4-5	4-5	4-5	4
4	4	4-5	4-5	4-5	4	4-5	4-5	4-5	4-5	4	4
4	3-4	4-5	4-5	4-5	4	4-5	4-5	4-5	4-5	4	4
4	3-4	4-5	4-5	4-5	4	4-5	4-5	4-5	4-5	4	4
4	3-4	4-5	4-5	4-5	3-4	4-5	4-5	4-5	4-5	4	4
4	3-4	4-5	4-5	4-5	3-4	4	4	4-5	4-5	4-5	4-5
4	3-4	4-5	4-5	4-5	3-4	4-5	4-5	4-5	4-5	4-5	4-5
4	4	4-5	4-5	4-5	4	4-5	4-5	4-5	4-5	4	3
4	4	4-5	4-5	4-5	3	4	4	3	4	4	3
4	-	4-5	-	4-5	3-4	4-5	4-5	4-5	4-5	4-5	4
4	3	4-5	4-5	4-5	4	4-5	4-5	4-5	4-5	4	3
4	4	4-5	4-5	4-5	3	4	4	4-5	4-5	4-5	4



Printing Process

Print-Dry Steam - Wash off Printing Stock Thickener

Softwater	X gm
-----------	------

Urea (Depend on type of good & fixation method)	100-300 gm
--	------------

Reduction Inhibitor	10-20 gm
---------------------	----------

Deaerating & Penetration agent	05-10 gm
--------------------------------	----------

Sodium Bicarbonate	25-40 gm
--------------------	----------

Stock Paste	40-50gm
-------------	---------

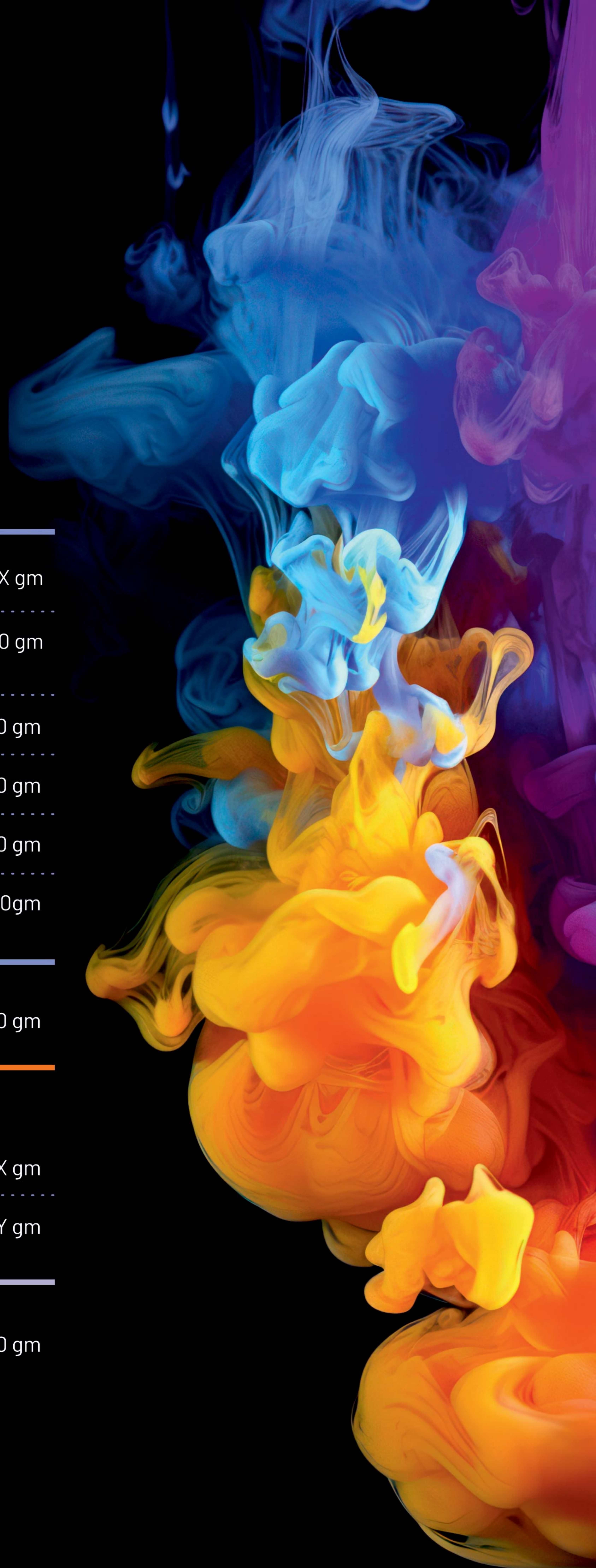
Total	1000 gm
-------	---------

Printing Paste

Stock Thickner	X gm
----------------	------

Amron® P Dyes	Y gm
---------------	------

Total	1000 gm
-------	---------





Printing Process & Paste Format

- » **Print-Dry-Steam-Wash Off**
- » **Amron® P Dyes**



Drying, Steaming (Fixation) Process



Drying Process

- » Drying at 120-130° C
- » Keep cotton moisture content 8-12 % after drying
- » Keep viscose moisture content 15-25% after drying



Steaming (Fixation) Process

Viscose Fabric

- » Saturated steam at 101 - 102° C for 10-15 minutes

Cotton Fabrics

- » Saturated steam at 101 - 102° C for 8-12 minutes
- » High temperature steaming at 130-140° C for 3-5 minutes



Wash Off Process (Exhaust)

- » Overflow cold rinse
- » Warm wash @95° C
- » Soaping 1st @ 95° C
- » Soaping 2nd @ 95° C
- » Warm wash @ 80° C
- » Cold Rinse
- » Dry

NOTE: The method of washing may vary depending on the type and capacity of the washing machine at hand.

The data provided here has been meticulously compiled and serves as a crucial reference for users. While the ratings are tailored to the specific test samples analysed, it's important to note that they may not encompass every conceivable scenario, including:

• Substrate Variation • Printing Process • Process Parameters • Washing Off Cycle • Post Washing Treatments/ Finishes



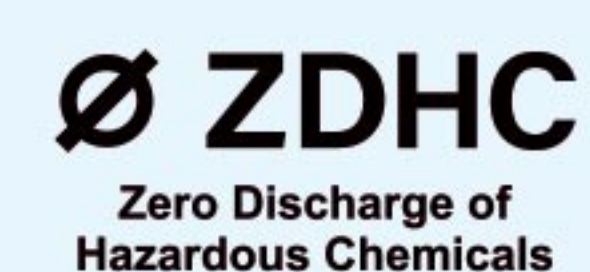
Download Brochure

Experience, Expertise, Excellence



Plot No. 280-282, Phase II, G.I.D.C. Estate, Vatva, Opp. Vatva Railway Station, Vatva, Ahmedabad 382 445. Gujarat, INDIA.

+91 92272 21226 / 27 | admin@amtexindia.com | www.amtexindia.com



All other terms and product names may be trademarks or registered trademarks of their respective owners and are hereby acknowledged. ©2024 AMTEX DYE-CHEM INDUSTRIES. ALL RIGHTS RESERVED. | WWW.AMTXINDIA.COM