



— PRINTING & CONVERTING INDUSTRY

TECHNICAL TAPES FOR SPLICING





CONTENTS

About Novacel	2
Novacel's commitment to people and the planet	3
Novacel solutions for splicing applications: introduction	4
Q2 Splice tapes	6
Single-sided and Double-sided tapes.....	8
Novacel Machines	9
Find your match	11

ABOUT NOVACEL

As a **40-year-old worldwide leader in surface solutions**, Novacel proposes a comprehensive offer to its customers, ranging from industrial process films to technical tapes and papers products, machines and the associated services.

Novacel continuously focuses on expertise and innovation to provide its customers and partners with the most appropriate recommendations to add value to their materials and to help enhance their industrial efficiency.

Novacel is present in **90 countries** with more than **750 employees** and several production sites worldwide. In line with its 'Beyond the Surface' ethos, Novacel is deeply committed to sustainability and innovation for People and the Planet. Novacel is part of the Chargeurs Group.

NOVACEL'S COMMITMENT TO PEOPLE AND THE PLANET

Novacel's Corporate Social Responsibility Strategy is organized around three pillars:

- **Creating a responsible industrial community**
- **Minimizing our environmental impact**
- **Eco-designing our products**

As a responsible manufacturer, Novacel takes responsibility for the impacts of its decisions and activities on society and the environment. Given this, Novacel promotes operational excellence and staff engagement through regular team upskilling and training. Moreover, through our responsible purchasing charter, we strive to adhere to ethical business practices with our partners. Our employees' approach to their work is governed at all times by the Chargeurs Group's Code of Conduct.

Reducing the environmental impact of our products by innovating right from their initial conception up to their end-of-life and taking care of teams' and customers' health are at the heart of Novacel CSR Strategy.



LOW ENERGY CONSUMPTION

In Italy, at our production plant for tapes, we **reduced our environmental impacts** and the **use of energy resources**, by updating the production line and equipment in line with the Best Available Technologies (BAT) and Carbon Footprint regulations. As examples, we use cogeneration and have installed 2000sqm solar panels.

We are particularly proud of our **safety culture**, which is deeply ingrained in the workforce. Very high levels of investment over the years, in addition to training, have allowed the site to achieve the significant target of 1,500 days without injuries, a benchmark for the sector.



SAFETY

Novacel is certified:



Novacel is a member of AFERA, the European Adhesive Tape Association. As an active member of AFERA, Novacel collaborates with experts and professionals from across Europe to shape the future of the industry.

NOVACEL TAPES: YOUR EXPERT FOR YOUR SPLICING APPLICATIONS

The Printing & Converting and Paper Mill industries use modern printing machines, that operate with high speeds and produce exceptional printing results. It is therefore essential to secure and ensure the efficiency of the manufacturing and printing processes by choosing the right partner with the best solutions.

For many years, Novacel Tapes has proved its worth for the flying splice in the printing and converting industry. Our latest generation of splicing tapes offers even better performance thanks to its improved adhesive, combined with the most reliable product design and a tailor-made assortment for all substrates used for these applications.

We offer a comprehensive range of Q2 Splice, Single-Sided and Double-sided tapes. They ensure a quick splice preparation and offer strong adhesion for a secure splice, as well as heat and shear resistance for a stable production process. Special adhesive formulations and high coating weights guarantee high performance and secure bonds, even on rough or non-polar demanding surfaces.

WHY USE NOVACEL SOLUTIONS?

> A Global Solution Provider

Novacel offers complete solutions with processing films, technical tapes, paper products, machines and associated services.

> Unique features for your specific needs

We create innovative solutions to improve your industrial efficiency and ensure the well being of people.

> Expertise & Technical Support

Our teams are dedicated to provide you with the best experience and assisting you from the initial search for the right solution right up to its final implementation.

> A Strong CSR Commitment

Novacel works continuously on its carbon footprint by improving its production, creating eco-responsible solutions and putting human well-being at the heart of its strategy.





— Q2 SPLICE TAPES

Q2-Splice tapes are the best solutions for **automatic splicing processes** in the paper mill and printing and converting industries. They provide **enhanced efficiency for the process and reduce splice failure rate**.

Preparing Novacel's Q2 Splice is **quick and easy**: we estimate that operators can make a **75% time saving** compared to using traditional adhesive tape. The Novacel Q2 Splice is a self-splittable paper carrier that has an adhesive and provides a **very high**

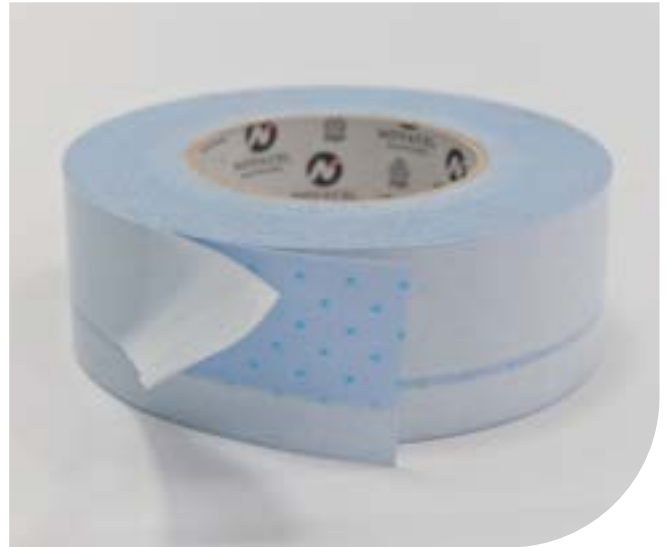
instantaneous adhesion on each face and carrier. It ensures **safe closure** as the new reel accelerates. It also **prevents the formation of air pockets** due to that acceleration and **enables precise opening after contact** with the ending reel. Thanks to Q2 Splice you do not need a fixing label for the reel and you can reduce the numbers of different labels.

Of course, limiting the splicing tail will save on material. You will **reduce wastage!**

NOVACEL ASSETS

This offer can answer any kind of converting process like "flexo" and rotogravure printing as well as laminating processes:

- **High tack and very good adhesion** even on low surface energy
- **Very good splitting/separation capability** for a smooth and safe roll change
- **Can be torn by hand**
- **Easy release** split liner
- Also available with an optical or inductive detection feature



HOW TO APPLY NOVACEL'S Q2 SPLICE TAPE?



1st step: Apply the tape on the new roll



2nd step: Remove the narrow liner



3rd step: Reverse wind substrate back on itself and apply it on the adhesive part. Then remove the overlapping excess substrate.



4th step: Remove the wide liner from tape



5th step: New web-material is ready for flying splice.

Automated flying splice process will continue and tape will split allowing new web-material to continue through press and coating process.



	Description	Color	Carrier/ backing	Liner	Adhesive	Total Thickness ($\mu\text{m}/\text{mil}$)	Temperature Resistance
BN 3110	Self-splittable tape for high speed flying splices on cold web offset processes : with aluminized paper backing for inductive detection.	Silver Green	Splittable metalized paper laminate	White siliconized split paper	Modified acrylic	110 μm / 4.3 mil	Good
BN 3160	Self-splittable tape for high speed flying splices on cold web offset, rotogravure printing, coating and lamination processes .	Green	Splittable paper laminate		Modified acrylic	110 μm / 4.3 mil	Good
BN 3250	Self-splittable tape for high speed flying splices on different printing, laminating and coating process where it is required a good temperature resistance.	Green	Splittable paper laminate		Repulpable acrylic	110 μm / 4.3 mil	High
BN 3501	Self-splittable tape for high speed flying splices on filmic materials in converting, laminating and printing processes .	Red	Splittable paper laminate		Natural rubber and resins	110 μm / 4.3 mil	Good
BN 3510	Self-splittable tape for high speed flying splices on filmic materials in converting, laminating and printing processes .	Blue	Splittable paper laminate		Synthetic rubber and resins	140 μm / 5.5 mil	Medium

— SINGLE-SIDED AND DOUBLE-SIDED TAPES

SINGLE-SIDED

Single-sided tapes are dedicated to **conventional manual splices**, which means **butt-splices**. They are also advised for other applications, like core starting or roll closure, and in different converting processes, as well as laminating, printing, and coating processes.

Made of **paper or film backing** and with **natural rubber or silicone adhesive**, Novacel Single-sided tapes offer a wide range of solutions to accompany your splice applications.



DOUBLE-SIDED

Double-sided tapes are dedicated to **conventional flying and manual splices**, especially for **overlapping splices applications**, in different converting processes and laminating, printing, and coating processes.

Made of **rubber or silicone adhesive**, Novacel Double-side Tapes will satisfy all your needs.

NOVACEL ASSETS

- **High tack and very good adhesion** even on low surface energy for silicone tape
- **High temperature resistance** in different converting processes

	Description	Color	Carrier/backing	Liner	Adhesive	Total Thickness (µm/mil)	Temperature Resistance
BN 6220	Semi-crepe paper tape with strong natural rubber adhesive, for manual splices on different substrates .	Brown	Semi creped-paper	/	Adhesive natural rubber and resins	120 µm / 4.7 mil	Medium
BN 23	Single sided PET tape with silicone adhesive for splicing in coating and lamination processes, splicing on siliconized papers .	Light green clear	Polyester	/	Silicone	60 µm / 2.3 mil	High
BN 38	Single sided PET tape with silicone adhesive for splicing in coating and lamination processes and splicing on siliconized papers .	Orange	Polyester	/	Silicone	120 µm / 4.7 mil	High
BN 22500	Double sided paper tape with natural rubber and resins adhesive for flying splices on filmic materials in converting, laminating and printing processes	Red	Paper	White siliconized paper	Natural rubber and resins	160 µm / 6.2 mil	Medium
BN 880	Double sided PET silicone adhesive tape for splicing in coating and lamination processes, splicing of siliconized papers .	Blue	Polyester	Clear Siliconized PET film	Silicone	100 µm / 3.9 mil	High
BN 7007	Double sided repulpable tape for high speed flying splices on coldset web-offset printers .	Green	Cellulose nonwoven	White siliconized paper	Repulpable acrylic	100 µm / 3.9 mil	Medium

NOVACEL MACHINES TO INCREASE YOUR EFFICIENCY

CUSTOM-MADE MACHINES

Novacel completes its offer and can meet your machinery needs. With its **Omma and Walco brands**, Novacel Special Machines can **develop, manufacture, and install special machines for the Lamination, Printing & Converting industries**.

With 60 years and counting of deep experience, our brands offer unparalleled innovation and reliability. We will co-develop the machine you are looking for with you, **meeting all your technical specifications**, to **increase your efficiency** in all your processes.



NOVACEL ASSETS

- **All size of machines**, for different widths or heights of substrate
- **High-speed** machines
- **All type of application and process** - Possibility of **robotization & automatization** of your process
- **Integration** in a production line or as a stand-alone unit
- **Services**: Installation and startup, maintenance, troubleshooting and software updates

OUR STRENGTHS:

- **CAD Design** (Solidworkss R2023)
- **Programming PLC Siemens, Schneider & Rockwell**
- **Robot Programming**
- Mechanical assembly, wiring
- **Modification and securing** of existing machines
- **R&D trained** in Machine Safety Guidelines and Standards (EC Directive)



NOVACEL SERVICES TO EASE YOUR BUSINESS



PRODUCT RECOMMENDATION

Benefit from Novacel expertise: choose the best solution for your materials and substrates, make your processes even more efficient and your carbon impact even lower. A whole team is dedicated to product recommendations to make sure your expectations are satisfied more effectively, and this applies in all four corners of the world.

PRODUCT CUSTOMIZATION

Thanks to our numerous distribution partners worldwide, we can deliver our solutions anywhere on the planet. Thanks to our network of distributors, we are able to deliver products ready for widening as close as possible to our customers. Dedicated experts are available at all our locations to support you.



PACKAGING CUSTOMIZATION

Novacel is keen to ensure that you receive our products in the condition in which they left our site. With this objective in mind, we pay close attention to the packaging of our products. Adapting them to perfectly match the required conditions, we handle every stage in delivery: road, maritime, air transportation or special storage, using the right packaging appropriate to meet all safety standards. If you have a specific request, contact us and we will look into it with you.

TECHNICAL SUPPORT

In order to help you enhance the quality of your products, a dedicated team at Novacel will do everything in their power to assist you. Our team of experts is available at all times to respond to your queries and requests and help you define the best solution right up to final implementation, including determination of the adjustment settings for your application machinery.



CUSTOMER PORTAL

Need to get information outside of working hours? Go online to our new customer portal www.my.novacel.world and review online all your account activities with just a few clicks*: detailed Novacel order history, order status, product info, requests, bills.

*for direct customers only

**For more information or any request, please contact us:
contact@novacel-solutions.com**

— FIND YOUR MATCH

A formal approval process by Novacel experts is imperative before using our products. Our technical sheets are available on request. As the applications of NOVACEL tapes are very wide-ranging and the conditions of use may vary from one company to another, NOVACEL recommends that you systematically carry out qualification tests on an industrial line before using the product and that you inform Novacel of the results.

Description	Color	Carrier/ backing	Liner	Adhesive	Total Thickness ($\mu\text{m}/\text{mil}$)	Temperature Resistance
-------------	-------	---------------------	-------	----------	--	---------------------------

Q2 SPLICES

BN 3110	Self-splittable tape for high speed flying splices on cold web offset processes: with aluminized paper backing for inductive detection.	Silver Green	Splittable meta- lized paper laminate	White siliconized split paper	Modified acrylic	110 μm / 4.3 mil	Good
BN 3160	Self-splittable tape for high speed flying splices on cold web offset, rotogravure printing, coating and lamination processes.	Green	Splittable paper laminate		Modified acrylic	110 μm / 4.3 mil	Good
BN 3250	Self-splittable tape for high speed flying splices on different printing, laminating and coating process where it is required a good temperature resistance.	Green	Splittable paper laminate		Repulable acrylic	110 μm / 4.3 mil	High
BN 3501	Self-splittable tape for high speed flying splices on filmic materials in converting, laminating and printing processes.	Red	Splittable paper laminate		Natural rubber and resins	110 μm / 4.3 mil	Good
BN 3510	Self-splittable tape for high speed flying splices on filmic materials in converting, laminating and printing processes.	Blue	Splittable paper laminate		Synthetic rubber and resins	140 μm / 5.5 mil	Medium

SINGLE-SIDED

BN 6220	Semi-crepe paper tape with strong natural rubber adhesive, for manual splices on different substrates.	Brown	Semi creped-paper	/	Adhesive natural rubber and resins	120 μm / 4.7 mil	Medium
BN 23	Single sided PET tape with silicone adhesive for splicing in coating and lamination processes, splicing on siliconized papers.	Light green clear	Polyester	/	Silicone	60 μm / 2.3mil	High
BN 38	Single sided PET tape with silicone adhesive for splicing in coating and lamination processes and splicing on siliconized papers.	Orange	Polyester	/	Silicone	120 μm / 4.7 mil	High

DOUBLE-SIDED

BN 22500	Double sided paper tape with natural rubber and resins adhesive for flying splices on filmic materials in converting, laminating and printing processes	Red	Paper	White siliconized paper	Natural rubber and resins	160 μm / 6.2 mil	Medium
BN 880	Double sided PET silicone adhesive tape for splicing in coating and lamination processes, splicing of siliconized papers.	Blue	Polyester	Clear Siliconized PET film	Silicone	100 μm / 3.9 mil	High
BN 7007	Double sided repulable tape for high speed flying splices on coldset web-offset printers.	Green	Cellulose nonwoven	White siliconized paper	Repulable acrylic	100 μm / 3.9 mil	Medium

For more grades or information, please refer to your sales representative.



www.novacel-solutions.com

