

INNOVATIVE PHARMACEUTICAL SOLUTIONS FOR CHANGING GLOBAL NEEDS



Reaching Further Together


Rousselot

DARLING
INGREDIENTS



DRIVING YOUR BUSINESS FORWARD

The population is increasing, more of us are living longer, and at every life-stage we now have higher expectations in health and in food. An aging population, plus increased health awareness, is fueling demand for pharmaceutical components in which gelatin plays a key part. As a global leader in pharmaceutical gelatins with over 100 years' experience, we understand your challenges and are in prime position to drive your business forward.

TODAY'S CHALLENGES

Stay on trend

To ensure you are in a position to meet the new customers demands, it is important to stay one step ahead of consumers trends.

New product development

To give your product a competitive edge and help your business maintain its market position, new product development is an essential part of every strategy.

Complete quality and product integrity

Product quality and integrity are number one priorities. Continuously improving your process and performance,



including a full tracking and tracing of raw materials is crucial for your business.

Global regulatory compliance

Rigorous monitoring system and ongoing dialogue with key international regulatory bodies keep you fully abreast of all global requirements.

ROUSSELOT'S PHARMACEUTICAL EXPERTISE

As the world leading producer of gelatin, we understand pharmaceutical manufacturing and how important gelatin is to your products. We are committed to driving your business forward and helping achieve your goals. We work in partnership with our customers all over the world, delivering innovative and advanced ingredient solutions manufactured in state of the art operations.

COMPREHENSIVE SERVICE

Working with the Rousselot team means you benefit from our impressive heritage, with over a century's experience in the production and application of pharmaceutical gelatin. We understand that supply continuity and strong customer support are crucial – not only to the growth of your business, but also to your long term success. With this in mind, at Rousselot we ensure our gelatin is supported by a comprehensive service to exceed your expectations.

Reaching Further Together

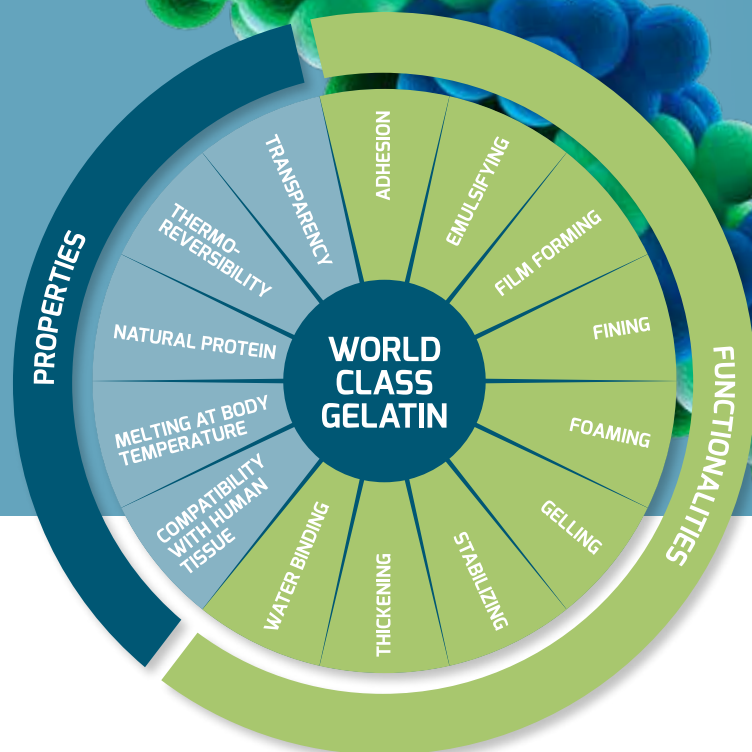


AN EXTENSIVE GELATIN PORTFOLIO, PHARMACEUTICAL GRADE

We offer you an exceptional understanding in formulation expertise, and an extensive portfolio of high quality gelatins. From both porcine and bovine origins, for every region, for every religious requirement and cultural preference, 100% pharmaceutical grade and, if wished, endotoxin controlled.



ROUSSELOT® GELATIN, A POWERFUL NATURAL EXCIPIENT



Thanks to its unique functional capability to offer film forming, gelling, thermo-reversibility and melting at body temperature, as well as its full compatibility with human tissue, gelatin is used in various pharmaceutical products from everyday concepts to more sensitive and specialized applications.

DESIGNED BY NATURE

Gelatin is extracted from collagen, a natural animal protein that supports body strength and mobility. Rousselot Gelatin is safe and non-allergenic, it is fully compatible with human tissue and totally digestible.

HIGHLY EFFICIENT AND EASY IN USE

A powerful ingredient, gelatin offers numerous important functionalities making it highly effective when used in pharmaceutical and nutraceutical dosage forms.

- Good solubility even at high concentration
- Compatible with other excipients for easy preparation
- Offers rapid processing and a fast setting to optimize productivity

SUSTAINABLE PROCESS

- Sets at ambient temperature, offering energy saving advantages
- Helps reduce waste as gelatin systems can be reworked
- Answers environmental concerns as a biodegradable, environmentally friendly ingredient

TREND SETTING AND SAFE INGREDIENT

Gelatin waste can be revalorized within the value chain to contribute to a sustainable circular economy.

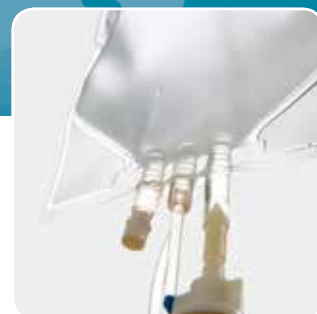
It is e-number free and clean label compatible; its neutral flavor and odor make it versatile in applications and, as a pure protein (collagen), it is a recognizable value adding ingredient.

All Rousselot manufacturing plants are fully compliant with the highest international standards, which makes Rousselot gelatin a very safe ingredient.





IDEAL FOR THE MOST WIDELY ACCEPTED DOSAGE FORMS



HARD AND SOFT CAPSULES

Strong processing advantages

Thanks to its unique film forming functionality and to its very specific characteristics, gelatin makes the best of your production process and is efficient in use. Because of its thermo-reversibility capsule shells can even be reworked.

Application benefits

Rousselot's gelatin offers you a high quality excipient. Its optimum melting properties allow a fast and effective

release of the APIs in the body. Furthermore, the resilience of the gelatin shell prevents brittleness and loss of shape while also perfectly protecting the active ingredients from oxidation.

FULLY COMPATIBLE FOR IN BODY USE

The body has a high acceptance for gelatin as it is naturally present in human tissue in the form of collagen and can be fully metabolized.

Plasma substitute

Our high purity gelatin meets the most stringent requirements in terms of microbiological and endotoxin content.

Colostomy bag

Used in association with other polymers, such as CMC or pectines, our gelatin forms an adhesive ring with which colostomy bags can be fixed in order to absorb residual moisture from the skin.

Biomaterials

Due to its excellent biocompatibility, gelatin is an excellent polymer used in a growing number of medical applications.



OUR THREE PROMISES TO YOU

We collaborate with customers all over the world, creating world class products, manufactured through our state of the art operations with an unshakeable commitment to quality, safety and sustainability. At Rousselot, we offer you three promises you can count on.

ROUSSELOT® PROMISE 1: WORLDWIDE EXPERTISE

You will benefit from global expertise and the support of dedicated local teams to secure the best solution for you.

Our multi-disciplinary team offers advice and inspiration at every stage of the process. Our collaborative environment



supports process and product optimization and we offer full support during the qualification process.

We strive to continuously improve our knowledge in the field, to connect the right gelatin solution to each pharmaceutical application, maximizing its functionality and benefits to achieve your goals.

We organize regular technical meetings – from Quality and Regulatory Compliance to Research Initiatives, our experts guide you through the process.

ROUSSELOT® PROMISE 2: HIGHEST STANDARDS

You can rely on world class products that meet the highest global quality and safety standards, delivered in spec and on time.

Working with the Rousselot team, you can be confident of our consistent gelatin quality. Well defined molecular stability ensures a stable process while physical and chemical characteristics maximize productivity.

Thanks to our global presence, with 13 Rousselot facilities located across the world, we can reliably supply you with



world-class gelatin in spec and on time, whenever and wherever you need it.

We align our network with your global reach and, because we offer long-term, multi-year agreements and the option to identify multiple factories for supply, your business continuity is assured.

All Rousselot manufacturing plants are fully compliant or certified with the highest international standards and good practice including ISO 9001 and HACCP. We follow the industry's most rigorous quality and control process such as GMP to ensure every region's specific quality standards are met.



ROUSSELOT® PROMISE 3: FULL RESPONSIBILITY

You can be certain we take full responsibility for our actions. We hold ourselves to the highest standards, whether it be in terms of our commitment to respect the environment, or through the integrity and transparency we show you.

We proactively take steps to achieve ever greater progress in our environmental and ethical business goals. For example, we have implemented sustainable production methods to protect our planet and reduce primary energy and water consumption.

By adhering to a well-defined Code of Business Conduct, we demonstrate integrity and transparency across our operations to ensure complete traceability for products and practices.



OUR SALES OFFICES AROUND THE WORLD

EUROPE, MIDDLE EAST, AFRICA

europa@rousselot.com

Northern, Central and Eastern Europe, UK and Ireland

Rousselot B.V.B.A.
Meulestedekaai 81
9000 Gent Belgium
+32 9 255 18 18

France, Southern Europe, Middle-East, Africa

Rousselot S.A.S.
4 rue de l'abreuvoir
92400 Courbevoie France
+33 1 46 67 87 00

Spain and Portugal

Rousselot Gelatin S.L.
Paratge Pont de Torrent, S/N
17464 Cervia de Ter (Girona) Spain
+34 972 49 67 00

SOUTH AMERICA AND CENTRAL AMERICA

rousselot.brasil@rousselot.com

Brazil

Rousselot Gelatinas Do Brasil LTDA
Rua Santo Agostinho, N° 280
Distrito de Arcadas
CEP 13908-080
Amparo - São Paulo Brasil
+ 55 19 3907 9000

South and Central America (except Brazil)

Rousselot Argentina S.A.
Avenida Gobernador Vergara 2532
1688 Villa Tesei - Hurlingham
(Provincia de Buenos Aires) Argentina
+ 54 11 44 89 81 00

NORTH AMERICA AND MEXICO

gelatin.usa@rousselot.com

Rousselot Inc.
1231 South Rochester Street, Suite 250
Mukwonago, WI 53149 USA
+1 888 455 3556

CHINA

info@rousselotchina.com

Rousselot China
25/A, No. 18 North Cao Xi Road
Shanghai – PO: 200030 China
+86 21 6427 7337

JAPAN AND SOUTH KOREA

japan@rousselot.com

Rousselot Japan K.K.
Ishikin-nihonbashi Bldg, 6F
4-14-7 Nihonbashi-honcho, Chuo-Ku,
Tokyo 103-0023 Japan
+81 3 5643 7701

SOUTH EAST ASIA

sea@rousselot.com

Taiwan, Hong Kong, Australia, New Zealand, India and Sri Lanka

Rousselot (M) SDN. BHD.
Block P3-21, Plaza Damas
Jalan Sri Hartamas 1
50480 Kuala Lumpur Malaysia
+603 6201 8282

Your Rousselot and Peptan sales contact information:

About Rousselot. Reaching Further Together.

Rousselot is a brand of Darling Ingredients Inc.
Rousselot is the global leader¹ of gelatin and collagen peptides.
Rousselot's wide range of collagen peptides are marketed under the Peptan brand. We work in partnership with our customers all over the world, delivering innovative and advanced ingredient solutions manufactured through state of the art operations. We help our customers achieve their goals, enabling them to create world class pharmaceutical, food and nutritional products to inspire and excite today's demanding consumers.

¹ Global Industry Analysts, Inc. Gelatin a Global Strategic Business report, Nov 2016

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Rousselot Headquarters:

Rousselot B.V. Kanaaldijk Noord 20 5691 NM Son The Netherlands
Phone: +31 499 364 100 gelatin@rousselot.com

rousselot.com

