

GENERAL PRESENTATION

Healthcare. We Care.

Aspen Group



Aspen is a **global supplier** of branded and generic **pharmaceutical products**



Aspen products are provided in more than **150 countries** around the world. Products are divided in **3 therapeutic categories** : Thrombosis, anaesthetics, cytotoxics



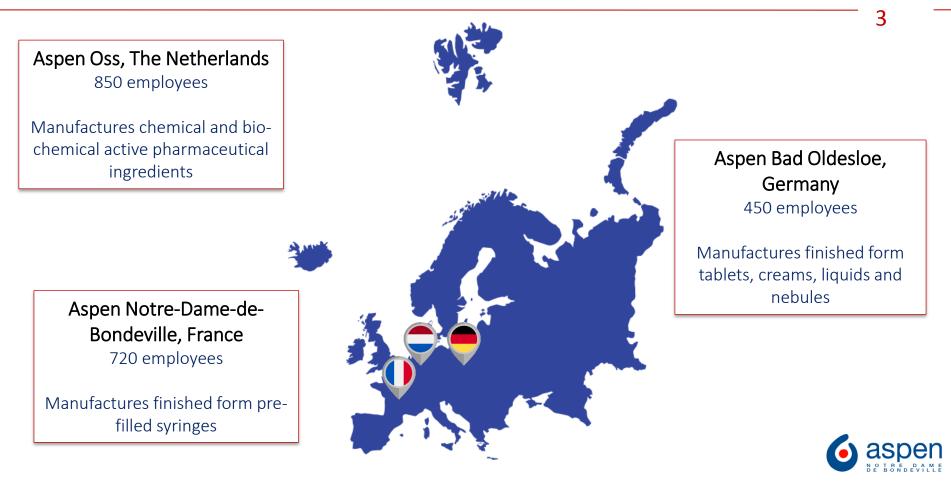
16 manufacturing sites of pharmaceutical products on **6** continents (North and South America – Asia – Africa – Oceania – Europe)



More than 10 000 employees all around the world



Manufacturing sites in Europe



Our Products



FRAXIPARINE ™ / FRAXODI ™

Low molecular weight heparin indicated for venous thromboembolic events **100 million units**



ARIXTRA ™

Unique synthetic injectable inhibitor of Factor Xa approved for a range of uses in VTE treatment/prophylaxis and treatment of acute coronary syndromes

30 million units



MONO EMBOLEX™

Low molecular weight heparin indicated for venous thromboembolic events **30 million units**



Third Party activities



DILUANTS

Production of diluents syringes for GSK vaccines, used for reconstitution of vaccines prior to injection or oral administration

15 million units



DILUANTS NaCl

Production of diluents syringes for Sanofi Pasteur, used for reconstitution of *Hæmophilus influenzae* type B vaccines for Japanese Market

5 million units



FLU VACCINES

Production of vaccines for Sanofi Pasteur (filling & inspection). First campaign in 2023

10 million units



Our key figures (2019)





Employees

92% of production

shipped internationally



6

(105 countries)

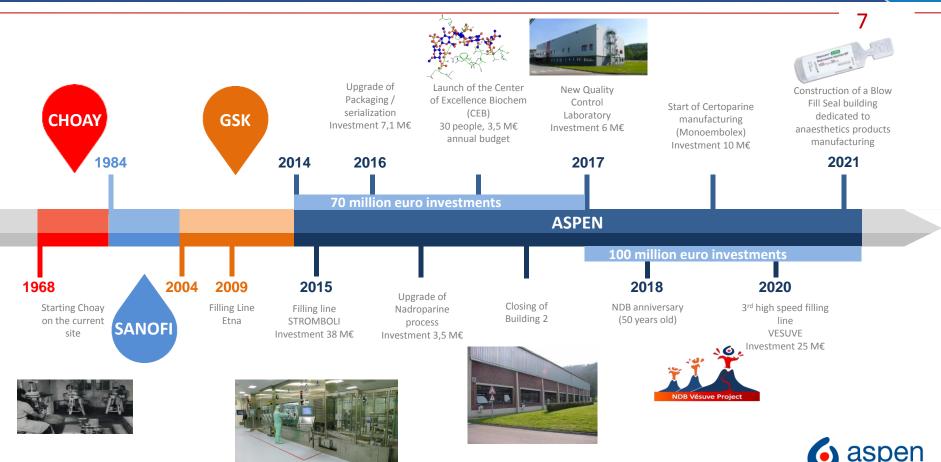


units shipped





Our history



Since the acquisition of Notre Dame de Bondeville site by Aspen group in May 2014, nearly **70 million euros** have been invested in production facilities to increase production capacity and accommodate new products:

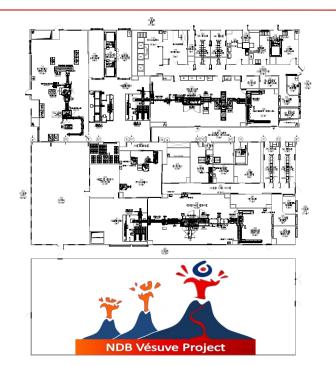
- New high speed filling line with the highest quality standards for the production of sterile prefilled syringes (36,000 syringes per hour), inaugurated in October 2015: € 38 million
- A new raw material manufacturing workshop (Certoparine): € 9 million
- A new quality control laboratory, inaugurated in April 2017: € 6.3 million
- The modernization of heparin purification workshop to increase the production capacity of raw materials: € 3.4 million
- Improvement of packaging lines, with the installation of new thermoforming , labeling and cartoning equipments: € 7.1 million



Third line of PFS at NDB







ETNA 80 Million units

STROMBOLI

120Million units

VESUVE 180 Million units

380

Million PFS capacity



PFS – fourth inspection line

5

Million euro investments

36 000

Syringes/hour

2020 Operational



22 Cameras

3 Spectrometers

VULCAIN

Vesuve's inspection line



New product portfolio : anesthetics

65

Million euro investments

46

Million single doses ampules (polyethylene and polypropylene)



100 recruitments



2 Million infusion bags



new production building



A site of excellence for the Aspen Group

CEB Center of Excellence Biochem

Main mission for the supply chain and production of Biochem ASPEN products :

- Provide technical support
- Define a common quality and regulatory approach
- Provide supervision from a performance and project management point of view

The Center of Excellence Biochem will focus on the active ingredients associated with ASPEN's portfolio of anticoagulant products :

Danaparoide sodium (Orgaran[®]) Nadroparine calcium (Fraxiparine[®]/Fraxodi[®]) Fondaparinux sodium (Arixtra[®])

CES Center of Excellence Sterile

- Mutualize key skills
- Actively participate in international **conferences**, **seminars** and **forums** (PDA, SFSTP, PIC, etc.)
- Harmonize practices (Quality, Regulation...)
- **Develop skills** / aptitudes for the future
- Assist sites and external partners in problem solving and technology choices
- Improve the sites and the supply chain performance





NDB PEOPLE

Healthcare. We Care.

Our values



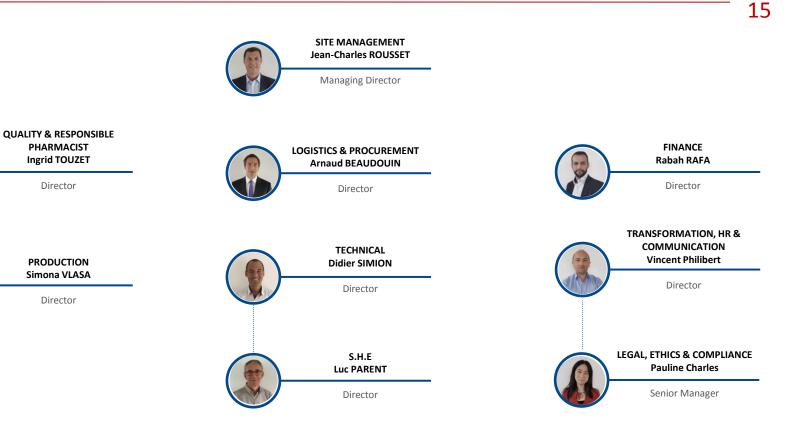




NDB SITE LEADERSHIP TEAM

Director

Director









A committed team









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Site employees engaged to support local associations



Don de la Société ASPEN

Au sein du site pharmaceutique ASPEN de Notre Dame de Bondeville en Seine-Maritime, des bénévoles s'engagent pour assurer la santé et la sécurité au travail. En plus de cet engagement au sein de l'entreprise, envers leurs collègues, ces hommes et femmes font preuve d'une grande générosité en menant des actions tout au long de l'année au profit des associations.

C'est ainsi que pour la deuxième année. consécutive, les pompiers bénévoles d'ASPEN ont pris l'initiative d'organiser la vente de calendriers et décidé de faire profiter l'argent ainsi récolté à trois associations de leurs cœurs, dont



Mandela day

ASPEN NDB



LES BLOUSES ROSES

à l'hôpital





Xtraordinaire. 260 € ont ainsi été récoltés pour l'association Xtraordinaire.

La société avait donc décidé d'organiser un lunch sur le site de l'usine le vendredi 05 octobre dernier paur remercier les pompiers aux grands cœurs et remettre les dons aux 3 associations. Une nouvelle fois, c'est avec une grande émotion que nous remercions chaleureusement tous ces bénévoles pour leur engagement fidèle envers Xtraordinaire. Adélaïde Degarde

A dynamic community









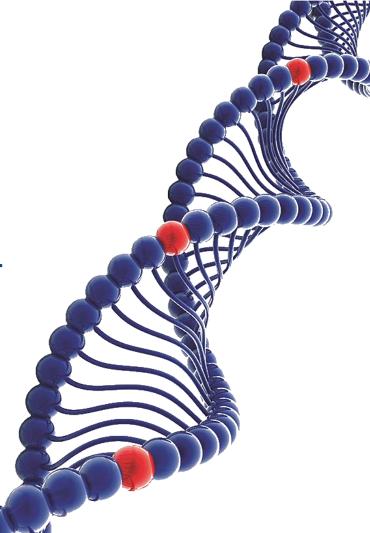






OUR PRODUCTION EQUIPMENT

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API MANUFACTURING WORKSHOPS

Sodium Fondaparinux: Arixtra™API

Building U: production launched in September 2004

Purification steps of Fondaparinux

2 shifts 5 days operation

Production capacity: 36 batches of purified Fondaparinux per year





Nadroparin Calcium: Fraxiparine[™] API

Launched in 1985

Refurbishment in 2011 - 2012 - 2016

Production capacity: 200 batches per year

1 shift 5 days operation

Sodium Certoparin: MonoEmbolex™ API

Launch of the first validation batches in 2017

Expected volume: 45 batches per year



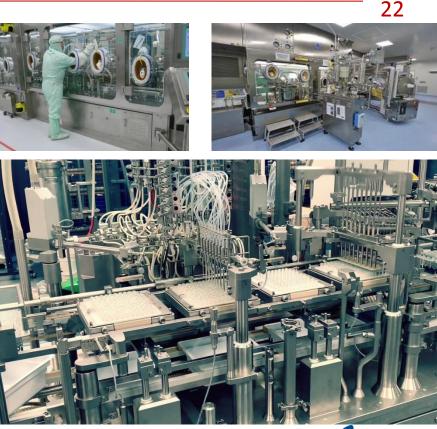


SYRINGE FILLING FACILITIES

3 high-speed filling lines:

Etna line : Fraxiparine[™] + Arixtra[™] + WFI + MonoEmbolex [™] Stromboli line : Fraxiparine[™] + MonoEmbolex [™] Vesuve line : 2020

- Aseptic filling under isolator
- E-beam
- Final sterilization by autoclaving





VISUAL INSPECTION





3 inspection lines:

- Etna line (automatic): Fraxiparine[™] Arixtra[™]
 Monoembolex[™]
- Line 24 Maewa (automatic): Fraxiparine[™], Arixtra[™] & diluants
- Line 20 (semi-automatic): Fraxiparine™
- Vulcain line (automatic): 2020



SYRINGE PACKAGING FACILITIES

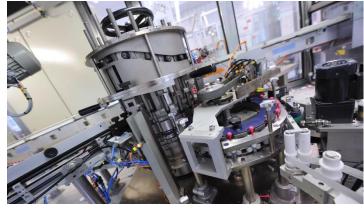
Fraxiparine[™]

- L27
- L29
- L23
- L5

Arixtra[™] & MonoEmbolex[™]

- L16
- L17
- Japon







The new quality control laboratory has been launched in 2017: quality control laboratory activities: from sample receipt to analysis results

2500 M²

3 Divisions (Physical Chemistry, Microbiology, Packaging items control)







WAREHOUSE

15 Meter high

3 Teams 7000

pallets

Class C room for sampling operations

15-25 Degree (controlled temperature)

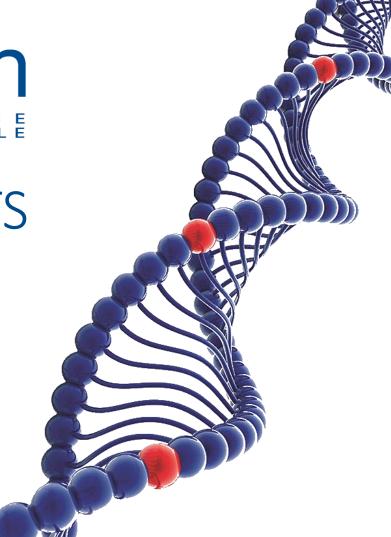
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OUR COMMITMENTS

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- Aspen NDB site has a Management System certified by DQS for OHSAS 18001, ISO 14001 and ISO 50001 standards
- Based on continuous improvement, our SHE policy reflects the management's commitment into areas for progress such as:
 - Reduction of injuries
 - Improvement in Quality of WorkLife
 - Control of energy consumption and quantity of waste
 - Control of environmental aspects and risks of pollution
 - Compliance with our commitments to the authorities and the Aspen Group







Environment performance





79%

reduction from 2010 to 2018



waste buried since 2012

Reduction of **33 %** from 2010 to 2018

82% of waste is recycled



