

Kynar® PVDF Li-ion Battery Applications

NAATBatt 2020

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ARKEMA
INNOVATIVE CHEMISTRY

20,000
talents

11,000
in Europe

4,000
in North America

5,000
in Asia and RoW



**WOMEN AND MEN
AT THE HEART
OF OUR
DEVELOPMENT**



> 10,000
customers

Collaborations
with the largest
global brands

1,800
new hires
every year

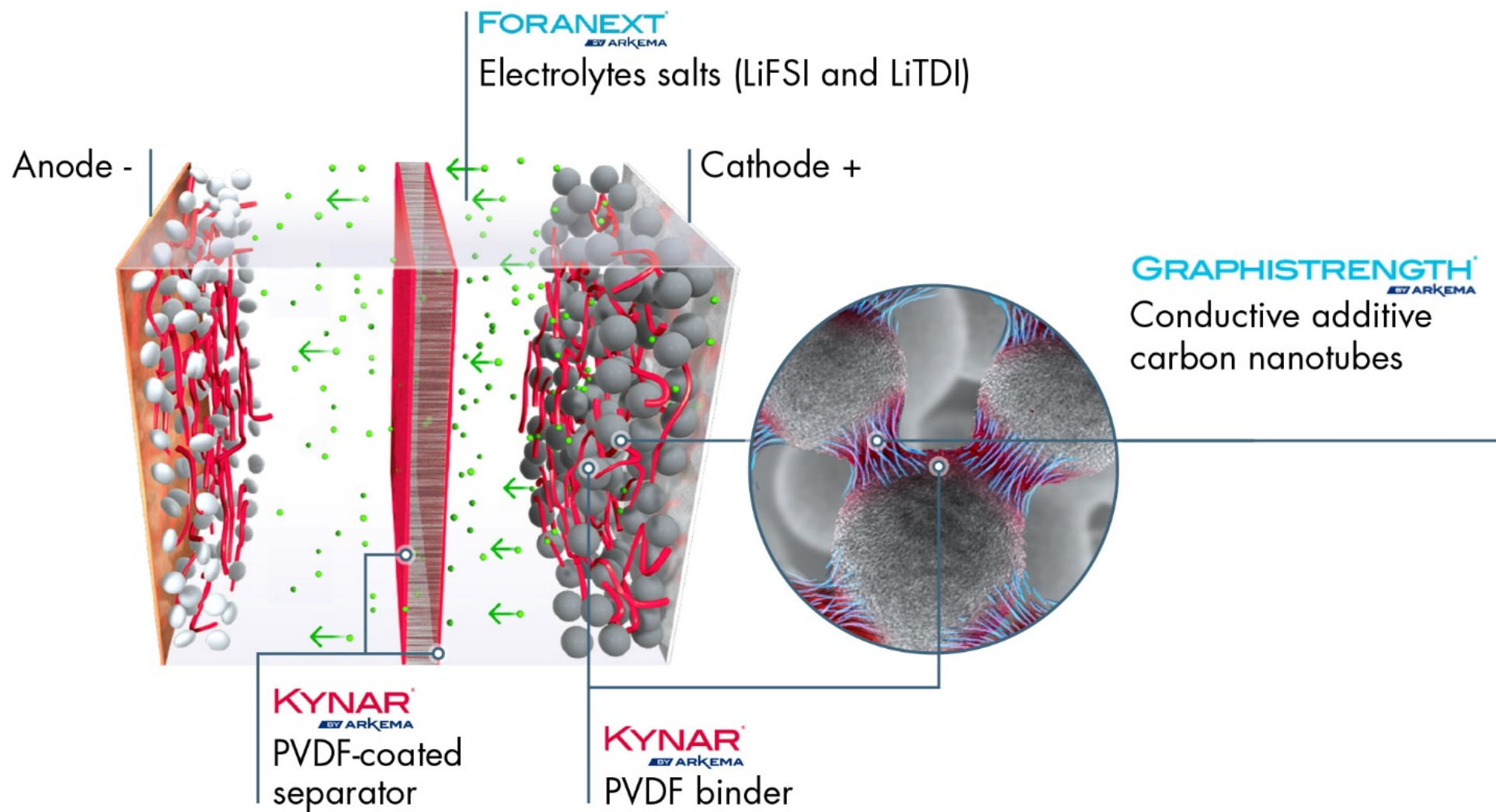


€8.3 bn
sales

Presence in
55 countries

136 plants
13 R&D
centers

ARKEMA BATTERY SOLUTIONS



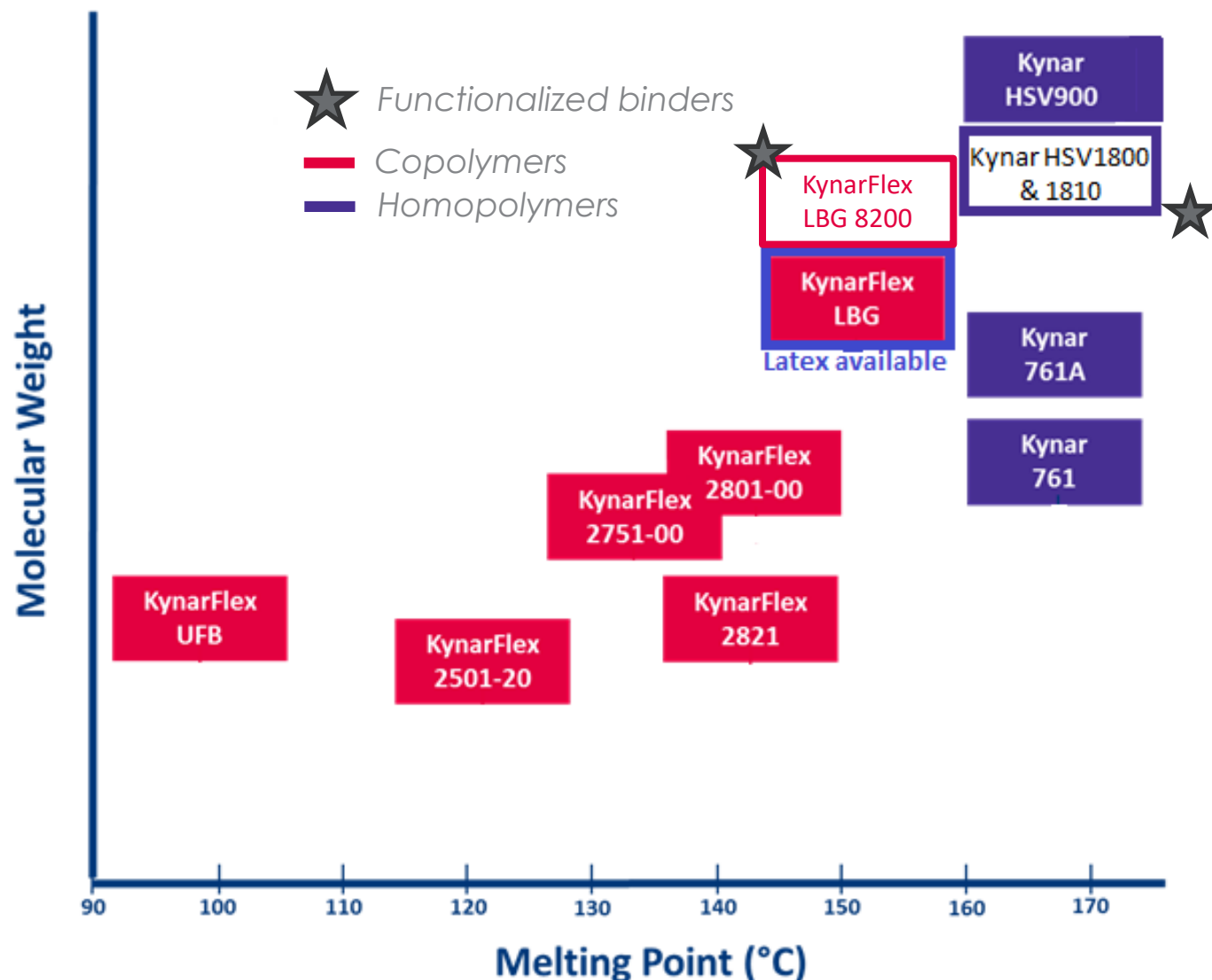
KYNAR® PVDF BROAD PRODUCT PORTFOLIO = A TOOLBOX FOR CUSTOMERS

Key fine-tuning parameters...

- Molecular weight
- Crystallinity
- Copolymer content
- Functionalization

... For tailor-made properties of Kynar PVDF

- Adhesion
- Flexibility
- Electrolyte uptake (swelling)
- Dissolution speed
- Phase separation speed



KYNAR® PVDF SOLUTIONS FOR CATHODE

HSV900

KEY FEATURES

- ✦ Super high Mw Kynar® PVDF
- ✦ Good Adhesion
- ✦ Stable slurry behavior
- ✦ Low internal resistance
- ✦ Market reference for LCO, LFP and NMC111

HSV1800

KEY FEATURES

- ✦ Functionalized Kynar® PVDF
- ✦ Designed for NMC, LTO and LFP
- ✦ Enhanced adhesion
- ✦ Fast dissolution in NMP

HSV1810

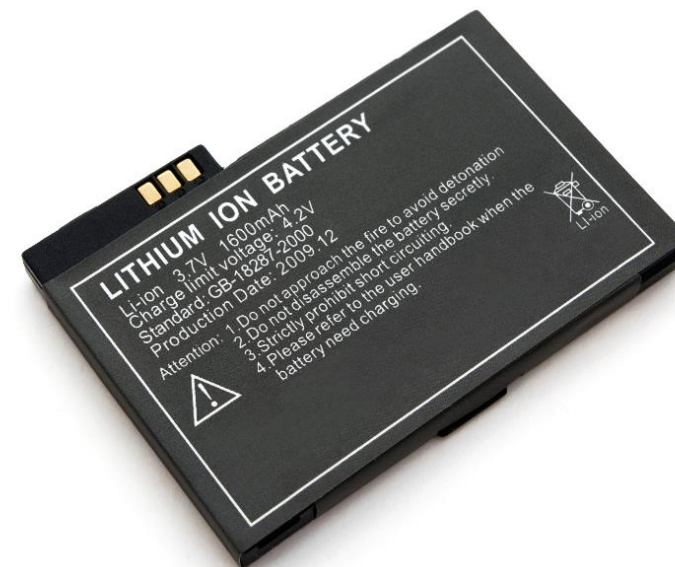
KEY FEATURES

- ✦ Functionalized Kynar® PVDF
- ✦ Designed for Ni+ NMC
- ✦ Enhanced adhesion
- ✦ Fast dissolution in NMP
- ✦ **Wider processing window in high Ni active material**

Thank you

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KYNAR[®]
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