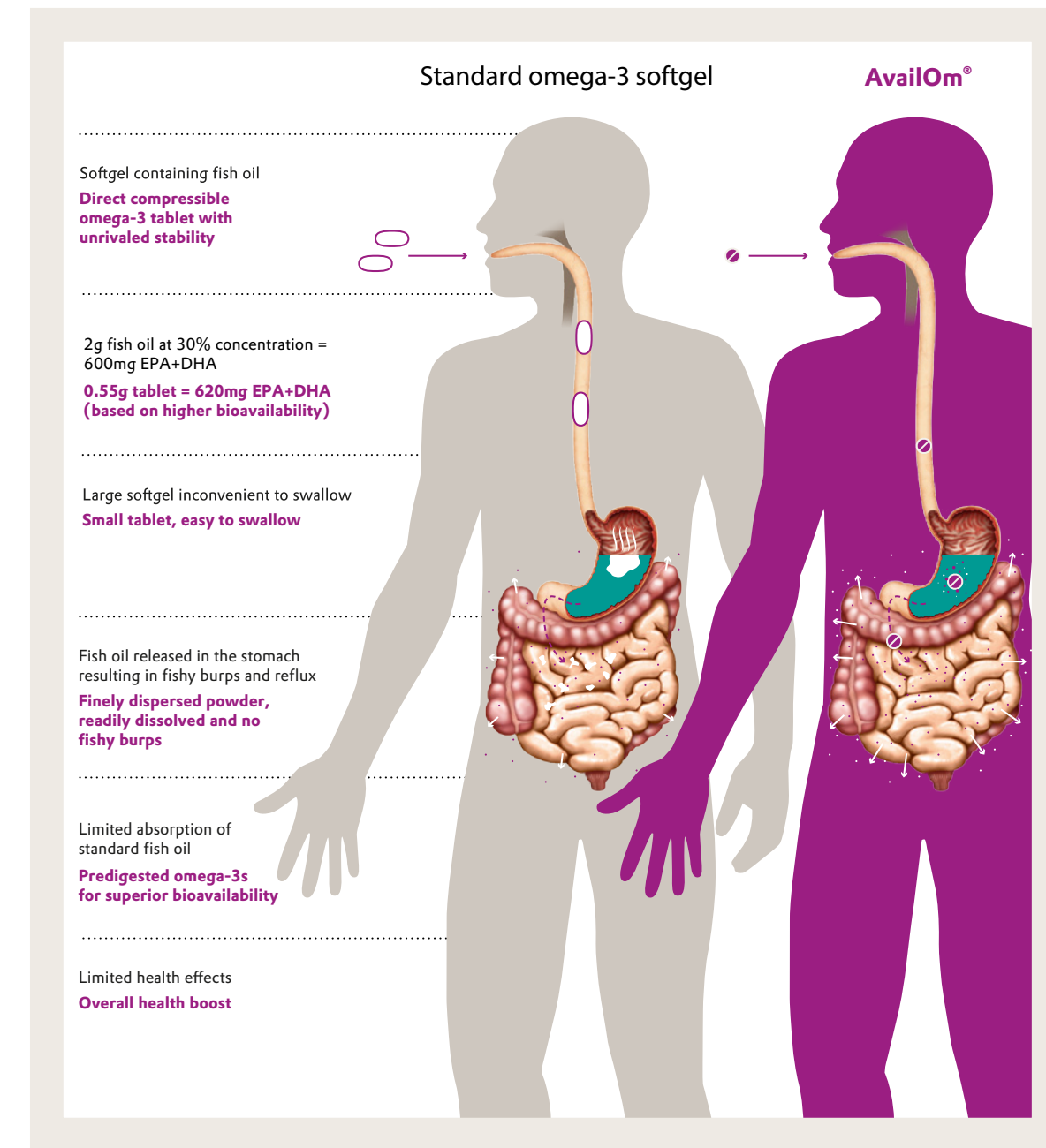


# AvailOm®

**AN ADVANCED OMEGA-3 POWDER TECHNOLOGY OFFERING UNIQUE FORMULATION AND CONSUMER BENEFITS\***

A single, small tablet made from AvailOm® can deliver the same omega-3 fatty acid uptake as two large fish oil softgel capsules



\* several patents pending

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AvailOm® – reg. trademark of Evonik Industries AG and its subsidiaries.

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## The Solid Omega-3 Choice

A high-load omega-3 lysine complex for superior potency, bioavailability and stability

AvailOm®



 **EVONIK**  
POWER TO CREATE

**EVONIK NUTRITION & CARE GmbH**  
Health Care Business Line  
Pharma & Food Ingredients

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 **EVONIK**  
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# Unmatched properties in its omega-3 class

	STANDARD OMEGA-3	KRILL OIL	TABLET WITH AVAILOM®
Sufficient uptake	●	●	●
High bioavailability		●	●
High load		●	●
Small, easy to swallow		●	●
Highly customizable			●
Direct compressible			●
Easy handling (powder)			●

## CORE BENEFITS FOR NUTRITIONAL PROVIDERS

The highest load omega-3 powder in its class (EPA+DHA as free fatty acid: Min 45%)

Bioavailability vs. standard fish oil capsules is 3 to 5 times higher

Includes an additional dose of the amino acid Lysine, an essential nutrient

Directly compressible to easily combine with other ingredients

Unmatched protection against oxidation: stable for at least 3 yrs

Significantly higher bioavailability results even when taken as part of low fat diet

Free flowing powder form for easy handling, with various enteric coating options

Marketing clearance for use in the U.S., Europe and multiple other countries

## A WORLD OF FORMULATION OPPORTUNITIES

- Directly compressible tablet options using standard equipment include:
  - Single entity omega-3 tablets
  - Multi-ingredient tablet combinations
  - Multi-vitamin tablets containing omega-3
  - Enterically coated tablets
- Filled capsules
- Coated pellets



# High-quality ingredients High-performance outcomes

## THE SCIENTIFIC BENEFIT EXPLAINED

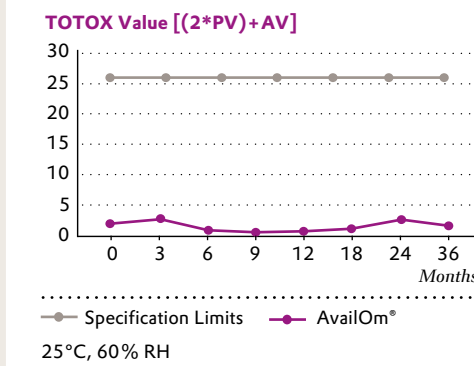
When omega-3 fatty acids are consumed as Triglycerides or Ethyl Esters, they need to be hydrolysed to the free fatty acid by gastric enzymes.

AvailOm® avoids this step by providing a pre-converted complex which rapidly dissociates to the free fatty acid, enabling it to be absorbed immediately.

### OMEGA-3 LYSINE COMPLEX: KEY PRODUCT SPECIFICATIONS

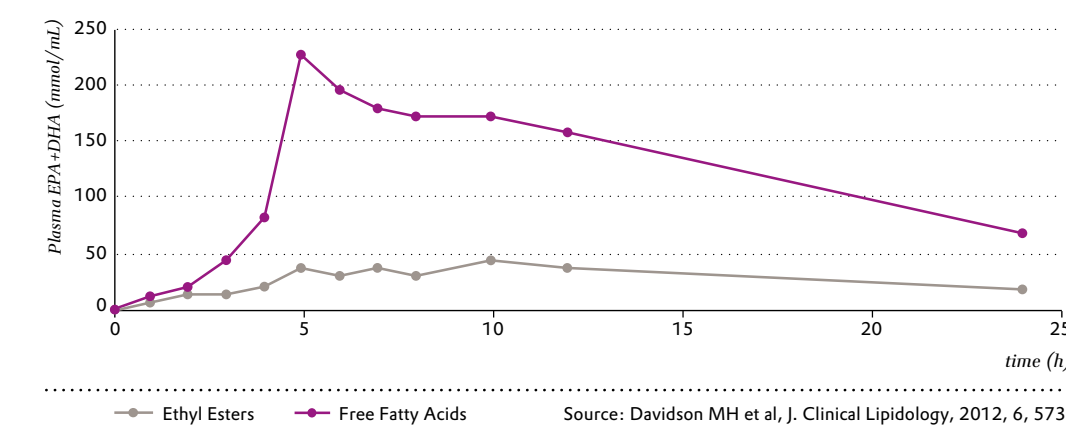
Omega-3 content	EPA plus DHA as free fatty acid: Min. 45%
L-Lysine	≥ 30%
Shelf life	Three years (study ongoing)
Packaging	25 kg drum, Samples: 500 gr
Production	France and Germany
Raw materials	Omega-3 sourced from reliable suppliers
Standards	HACCP, ISO 22000

### SUPERIOR STABILITY



Consistent oxidation parameters maintained over a three year period

### SUPERIOR BIOAVAILABILITY OF OMEGA-3



Peak bioavailability attained with low-fat diets, whereby free fatty acid plasma concentration was >5 times that of ethyl ester with total bioavailability being 4 times that of ethyl ester

## FORMULATE NEXT GENERATION PRODUCTS TO IMPROVE BRAND PREFERENCE

- A single small solid dosage tablet form that is easy and comfortable to swallow
- Less dosage forms required to receive a full dose
- Highly customizable
- Potential for a clean label that is simple for consumers to understand
- Suitable for use in single entity omega-3, multi-ingredients or multi-vitamin forms

