

# Emoltene™ 100

Made by Vikings. For tough conditions.



## When the going gets tough Emoltene™ 100 keeps going

- ➔ The ultimate weather resistant & durable C10 plasticizer
- ➔ Superior UV resistance for an extended outdoor life
- ➔ Takes the heat due to its low volatility
- ➔ Higher extrusion rates and a lower cost per cubic meter
- ➔ Global production and supply reliability

# The all-conquering C10 plasticizer



Whether you are a PVC compounder, extruder, cable manufacturer or PVC business user a C10 plasticizer, such as Emoltene™ 100 can provide you with an all-conquering solution. Choosing the best general-plasticizer involves 3 key parameters: **Performance**, **Sustainability**, and **Processing**.

**Performance:** Particularly suited to the toughest outdoor tasks, where durability and low maintenance are performance prerequisites, C10 plasticizers outperform their C8-9 rivals.

**Sustainability:** Maintaining a safe and sustainable profile due the C10's low volatility, low migration and ability to survive the harshest environments provides peace of mind.

**Processing:** C10 plasticizers come with the added bonus of higher extrusion rates, easy switching and easy processing leads to both production- and cost-efficiency rewards.

The C10 plasticizer's technical superiority guarantees you a reliable lifetime performance. Whatever the weather, or environmental conditions tough PVC applications, such as cables, roofing membranes and automotive interiors, can rely on the C10 plasticizer to deliver durability, weather & UV resistance, plus low maintenance.



## The main C10 advantages include:

- Low volatility** for greater durability
- Low water absorption** for added weather resistance
- Anti-fogging** for a clean, safe and crisp appearance
- UV and ageing stability** important in outdoor PVC performance
- Low migration** for a stable longer life performance
- Lower density** for higher extrusion rates
- Non-classified under REACH** as opposed to C8 plasticizers

# Emoltene™ 100 – Navigating through the



Emoltene™ 100 is the best-of-the-best C10 plasticizers if you are after premium performance that lasts and lasts. No more out of hours maintenance calls just satisfied customers who order more. Wind, rain or shine Emoltene™ 100 is a plasticizer for all seasons. It will easily navigate through the roughest conditions extending the useful life of individual products and applications.



## Emoltene™ 100 axes all its competitors

C10 general-purpose plasticizers represent the best choice for PVC used in tough outdoor tasks and applications. But what makes Emoltene™ 100 (DPHP) the winning formula versus other C10's (DIDP)?

The simple answer is the total package. If you are looking for a plasticizer, especially for outdoor applications, such as roofing membranes or underground or undersea cables, then you need a very durable plasticizer for your flexible PVC. It has to survive the weather, water, air contamination and even climatic degradation in the soil.



## Retains its shape & fighting properties longer

While all C10 plasticizers – DPHP & DIDP – provide better durability, weather resistance and UV resistance than C8-C9 plasticizers Emoltene™ 100 (DPHP) provides extra UV resistance and durability. A critical factor in this comparison between DIDP & DPHP is weight loss and the retention of mechanical properties. The UV resistance table dramatically highlights, that over a 4 year period of exposure to natural weathering, PVC with DIDP plasticizer lost nearly 12% of its weight compared to less than 3% for DPHP. Weight loss can be responsible for the mechanical properties breaking down earlier especially in outdoor and exposed situations. Earlier degradation of mechanical properties requires more frequent maintenance and replacement too, which can be expensive for example in roofing membranes for arenas or accessing underground cables. **Emoltene™ 100's superior UV resistance is clearly a critical factor if you require premium PVC solutions.**

*Proven on land, sea and underwater Emoltene™ 100 (DPHP) gives PVC exceptional weatherability and durability with the softness and flexibility demanded for the tightest twists and turns.*

## UV RESISTANCE

	DIDP (64 PHR)	DPHP (64 PHR)
6 MONTHS	0.32	0.23
12 MONTHS	0.81	0.46
18 MONTHS	1.51	0.74
24 MONTHS	1.35	0.73
36 MONTHS	2.90	1.07
48 MONTHS	11.90	2.70

NATURAL WEATHERING CENTRAL EUROPE, % WEIGHT LOSS  
(PVC FORMULA 2)<sup>1</sup>



**Our longships are ready  
to sail the world**

**Perstorp is your predictable partner in an unpredictable world.** This reliability starts with the source of supply. Our state-of-the-art fully integrated 2-PH production platform provides the reliable supply backbone for Emoltene™ 100. We have the capacity to comfortably meet global demands for C10 plasticizers, and our strategically placed storage facilities in Europe and USA support our customers by responding rapidly to changes in local demand. Our aim is always to provide you with uninterrupted production and peace of mind. Wherever you are located you can rely on our logistics and longships to supply you whenever you need them.



**50+ YEARS  
LIFETIME OF  
CABLES WHEN  
YOU USE  
EMOLTENE™ 100**



**We'll help you  
conquer new horizons**

Our plasticizer technology and technical know-how are open to the entire PVC value chain – formulators, compounders, extruders, cable manufacturers. For example, we can help both in the development of formulas and in achieving more cost-effective processing. Emoltene™ 100 has a lower density compared to other C10 and C8-C9 plasticizer compounds so that higher extrusion rates can be achieved and also weight reduced, which is particularly important in automotive. In processing Emoltene™ 100 enables you to easily switch from DIDP and C8-9 plasticizers.

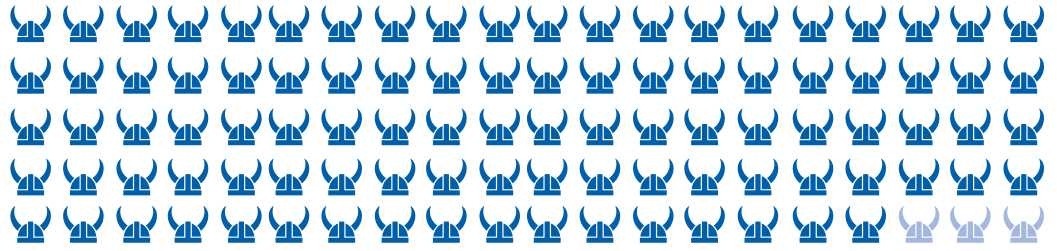
Emoltene™ 100 is a non-classified plasticizer under REACH, so it is safe to use. Its very low migration contributes to high permanency, and low volatility to anti-fogging making Emoltene™ 100 an excellent choice for car interiors. The durability and safety aspects can help you achieve a better carbon footprint and deliver a more sustainable alternative to your customers.

Whatever your need we are ready to support you and your customers to find the best solution for your PVC formulations and applications. Together we can conquer new horizons with in-house PVC development to keep you one-step ahead of your competition.

RELIABLE DELIVERY

97%

OTIF (ON TIME IN FULL)  
DELIVERY FROM SITE  
STENUNGSUND (SWEDEN).



GLOBAL LOGISTICS SUPPORT

6 STORAGE LOCATIONS AROUND THE WORLD

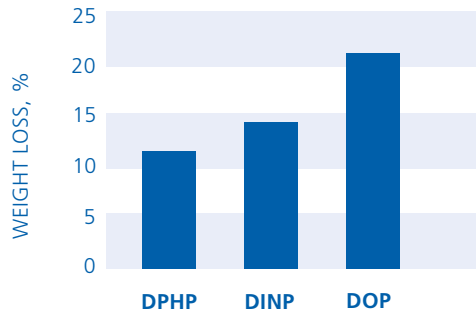
2000+ SHIPMENTS  
OF EMOLTENE™ 100  
SENT AROUND THE  
WORLD YEARLY



HIGHER EXTRUSION RATES

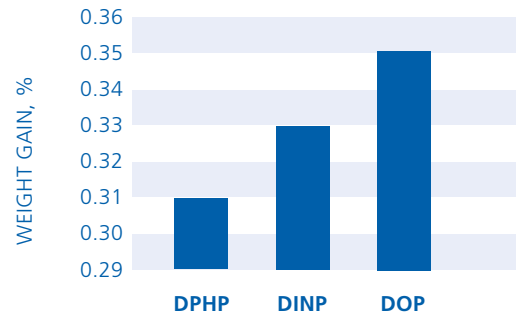
Emoltene™ 100 increases extrusion rates by 2-3% compared to C8-9 plasticizers.

VOLATILITY



WEIGHT LOSS OVER A SEVEN DAY PERIOD

WATER ABSORPTION



WEIGHT GAIN AS A RESULT OF WATER ABSORPTION





## A global leader in high growth niches

The Perstorp Group, a trusted world industrial leader, places focused and market-driven innovation at your fingertips. Our culture of performance builds on 135 years of experience and represents a complete chain of solutions in organic chemistry, process technology and application development.

As a global leader in high growth niches, such as powder and UV cured coatings, plasticizers, synthetic lubricants and grain preservation, we are committed to develop products providing essential properties to enhance the quality, performance and profitability of your products and processes. This is how we enable you to meet market demands for safer, lighter, more durable, economical effective and sustainable end-products for the automotive, construction, agriculture, packaging, transportation and consumer goods.

Our unique integrated production platforms are backed by reliable business practices and a global commitment to responsiveness and flexibility. Consistent high quality, capacity and delivery security are ensured through strategic production plants in Asia, Europe and North America, as well as sales offices in all major markets. Likewise, we combine product and application assistance with the very best in technical support.

As we look to the future, we strive for the development of smarter and safer products and sustainable processes that reduce environmental impact and create real value in end-products. This principle of proactive innovation and responsibility applies not only to our own business, but also to our work with yours. In fulfilling it, we partner with you to create a winning formula that benefits your business – as well as the people it serves.

Discover your winning formula at [www.perstorp.com](http://www.perstorp.com)