

VALONA HC

Hydrocracked neat cutting oils combining efficiency and respect for health



TOTAL



TOTAL

Neat cutting oils:

Total keeps ahead of the game with VALONA HC

Total breaks new ground on the health, safety and environment front. Neat cutting oils are strategic in manufacturing parts for the automotive and aerospace markets. As operators are constantly in contact with these lubricants, Total decided to change the formula of its VALONA range to propose new products respectful of operators' health.

Enjoy the benefits of the advanced hydrocracked (HC) oil technology

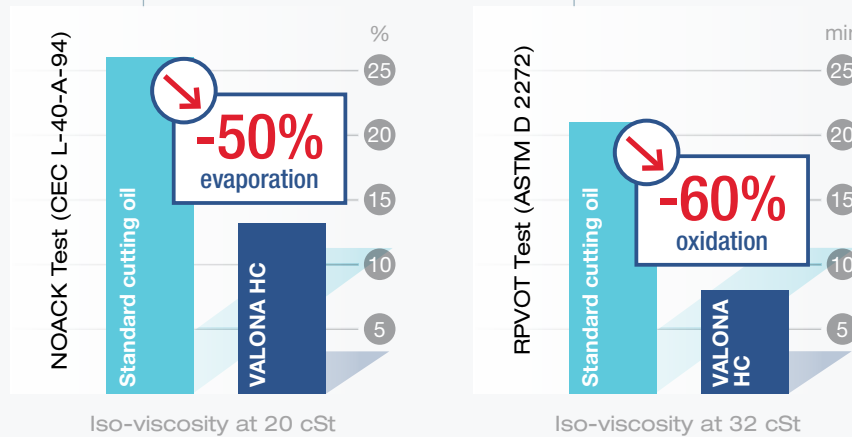
Our VALONA HC range offers improved, innovative technical characteristics. These oils undergo severe refining which modifies the nature of their molecules and makes them:

EASY TO USE:

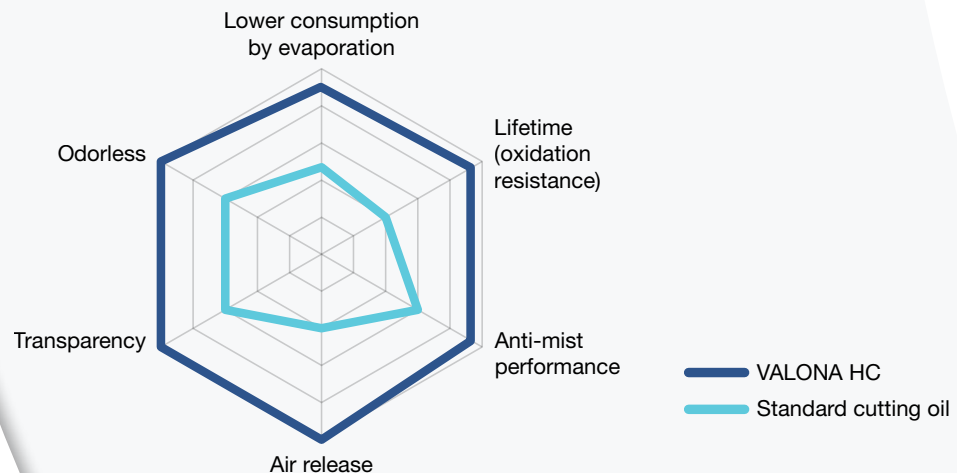
- Odorless
- Transparent

AND TECHNICALLY ADVANTAGEOUS IN OPERATIONS:

- Low-mist
- Low-foam
- Lower consumption
- Longer lifetime



Compare VALONA HC with standard cutting oils



Protect your operators

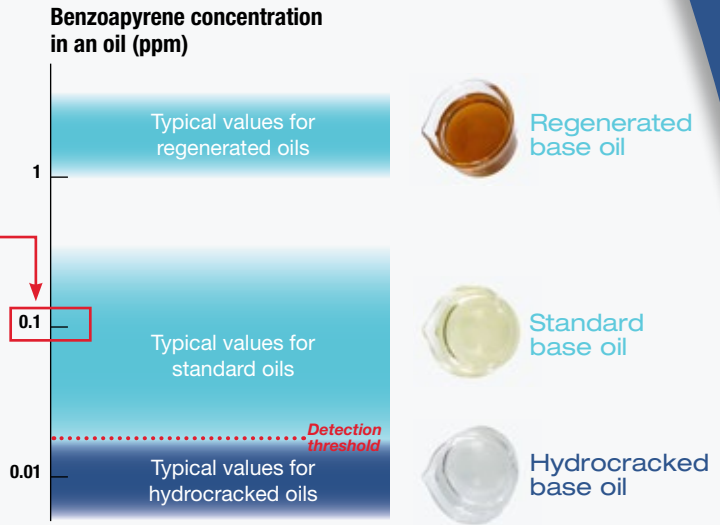
Our **VALONA HC** range is composed exclusively of hydrocracked oils, with a Benzoapyrene⁽¹⁾ content below detection thresholds.

The INRS⁽²⁾ publishes a maximum recommended concentration value for Benzoapyrene in cutting oils.

⁽¹⁾ Benzoapyrene is a molecule belonging to the Polycyclic Aromatic Hydrocarbon (PAH) family, classified as carcinogenic.

⁽²⁾ National Research and Safety Institute for the prevention of occupational accidents and diseases in France.

For more information: <http://www.inrs.fr/>



A NEW VALONA HC RANGE FOR ALL YOUR MACHINING APPLICATIONS

	Yellow metals and mild steels	Yellow metals and high-carbon steels	Steels only	Gear cutting
Drilling, reaming	VALONA MS 5009 HC	VALONA MS 7009 HC	VALONA ST 9013 HC	
Turning, milling, threading	VALONA MS 5020 HC	VALONA MS 7023 HC	VALONA ST 9122 HC	
		VALONA MS 7116 HC	VALONA ST 9037 HC	
Machining and lubrication	VALONA MS 3040 HC	VALONA MS 7046 HC		
	VALONA MS 5032 HC			
Broaching			VALONA BR 9015 HC	
Flute grinding	VALONA RANGE GR 9000 HC			
Grinding	VALONA RANGE GR 7000 HC			
Honing	VALONA RANGE GR 3000 HC			

A major player

With our production, supply chain and commercial presence in more than **150 countries**, we deliver a full range of lubricants to cover all your needs.

Support and partnership

Thanks to local technical presence, we provide a high level of services to optimize your **Total Cost of Ownership**.

References & OEMs

Total Lubrifiants cooperates with **equipment manufacturers** to create high-technology products for optimal **performances** and **protection** of your machinery.

5 good reasons for choosing TOTAL

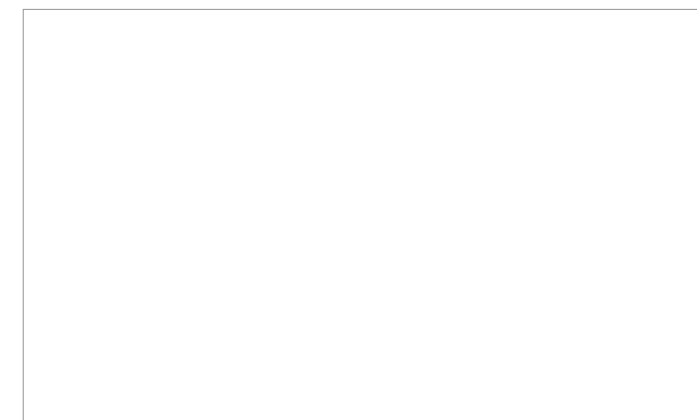
Quality and environment

Total Lubrifiants **ISO 9001 certification** is the guarantee of a **long term commitment** to quality. From the initial design stage, our R&D teams seek to develop products that **minimize toxicity risks** and **environmental impact**.

Innovation & Research

Total invests in biotechnologies to find the most suitable components to reach **energy efficiency** through formulations designed in our Research Centers.

Safety Data Sheets are available at www.quickfds.com



<http://www.lubricants.total.com/pro/industry.html>
www.lubricants.total.com



The right choice in lubricants

TOTAL