

## Press release

# **Kao Chemicals Europe additive brands AKYPO<sup>®</sup>, AKYPO<sup>®</sup> ROX, KAO FINDET, AMIDET<sup>®</sup> and FOSFODET<sup>®</sup>, provides key surfactant technology for modern Metal Working Fluid**

**The products are giving additional benefits in the case of emulsion stabilization in various degrees of water hardness and a wide variety of conditions.**

**Barberà del Vallès, 9<sup>th</sup> February 2021** – Kao Chemicals Europe provides key surfactant technology for modern metalworking formulations that are vital for water miscible fluids. Our additive brands AKYPO<sup>®</sup>, AKYPO<sup>®</sup> ROX, KAO FINDET, AMIDET<sup>®</sup> and FOSFODET<sup>®</sup> include these primary properties.

Extensive laboratory tests confirm that our multifunctional additives offer excellent emulsification power, low foaming properties, lime soap dispersing power and lubrication. Each product has its own unique performance profile. The products also provide additional benefits, in the case of emulsion stabilization, for varying degrees of water hardness and a wide variety of conditions. The handling and formulation ability is both simple and environmentally friendly. The special nature of the Anionic process opens the door to additional multifunctional benefits, as well as low foaming and lime soap control. The formation of a hydrophobic layer on the metal surface inhibits corrosion reactions and is reflected in a reduced corrosion current.

The Metalworking Toolbox's anti-corrosive properties provide guidance for selecting the best product to achieve the optimal level of corrosion control, by using a given metalworking formulation. Hydrophilic-lipophilic balance (HLB) indicates emulsifier efficiency and is a concept that is often applied to formulations. Lipophilic products with low HLB values stabilize fluid concentrates, while hydrophilic products with increased HLB values are designed to stabilize the fluid emulsion.

If required, customers can also combine our products to achieve outstanding stability in a wide range of conditions. A harmonized emulsifier system in the Metal Working Fluid also leads to a good self-emulsifying effect.

Many of these properties enable the formulations to successfully meet the increasing demands of your customers:

- Longer fluid lifetimes.
- Lower maintenance costs and increased productivity thanks to clean fluids.
- Formulations for high pressure and high speed machining.

## Kao Chemicals Europe, S.L.

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Enriching lives, in harmony with nature.

- Improved lubricity and extreme pressure/anti-wear (EP/AW) performance for increased tool lifetimes.
- Mild labelling and environmentally friendly metal-working fluids.

### **A step forward in KAO Chemicals Europe's commitment to the environment**

The development of AKYPO®, AKYPO® ROX, KAO FINDET, AMIDET® and FOSFODET®, with its evident positive environmental effects, is a step forward in the strategy and commitment of KAO Chemicals Europe to the environment.

Since the group was founded in 1887, its activity has been focused on clients' needs as well as the sustainable development of the world. In order to achieve these goals, we are a solutions provider that adds value to global industry products.

The KAO Chemicals Group's Environmental, Social and Governance (ESG) strategy has been developed taking into consideration global trends and standards that help the company to respond to the planet's needs.

In this way, its actions are designed and implemented in order to contribute to the United Nations Sustainable Development Goals (SDGs), helping to develop a healthier society in a sustainable world.

The development of AKYPO®, AKYPO® ROX, KAO FINDET, AMIDET® and FOSFODET® are aligned with this philosophy, contributing to minimising waste and reducing the impact posed by the development of communications throughout the world.

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