

# QUENCH FLUID 4525 AR

**Description:**

It is a fluid, made by a concentrated watery solution of polyalkyleneglycol, free from nitrates, in mixture with anti-corrosive additives, anti-rust, stabilizing and biocides, particularly formulated for quench of ferrous alloys.

**QUENCH FLUID 4525 AR** has a wide purpose flexibility, as it can be used with different water concentrations, with different quench speeds.

It ensures:

- Maximum safety grade, as the fire risk, smokes formation and oil mist formation are eliminated;
- Excellent stability of the watery solutions in a wide concentration range;
- Excellent protection against corrosion and rust of the worked pieces, thanks to the use of a balanced and selected raw materials and components system, which leaves a preservative and long lasting film on the metallic surfaces;
- Considerable cleaning grade of the worked pieces;
- Stress and distortion reduction of the worked materials, thanks to the control of the cooling speed in the most delicate phases of the quench process.

**Applications:**

**QUENCH FLUID 4525 AR** can be used in quench of forged or pressed ferrous materials. It can be used in open tanks, in continuous furnaces, in ovens for integral quenches and selective or superficial heat treatment plants.

N.B. **QUENCH FLUID 4525 AR** can be used in order to substitute quench oils or to improve the present quench operations. In these case, we recommend to ask out Technical Assistance Service for the best choice of the in-use concentrations.

**AVERAGE CHEMICAL AND PHYSICAL PROPERTIES\***

Physical aspect		Limpid liquid	
Density at 20°C	ASTM D 1298	Kg/lt.	1,061
Viscosity at 40°C	ASTM D 445	°C	152
Refractometer Index		-	2,17
pH (as it is)		-	10,5

\*these data do not constitute specific

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