



HEAT TREATMENT

Modern heat treatment processes are forever making new demands on quenching fluids. PETROFER's extensive development programme ensures that our product technology is more than capable of meeting these new industry advances. We are constantly screening new materials for their suitability in our formulations, and our existing product range is reviewed continually to ensure that the best available technology is used. Our customer partnership approach in heat treatment results in: increased profitability for our customers, process efficiency, operation simplification, energy saving and environmental acceptance. We provide the customer with a complete product portfolio for the whole range of heat treatment processes.

A QUENCHING OILS

With an extensive product portfolio PETROFER have oil type quenchants for achieving the desired metallurgical properties across the wide range of metals and processes where a controlled cooling is required, thus reducing distortion, cracking and scale formation while providing dimensional stability and uniform hardness. Quench Oils are offered in the following types: Accelerated, Hot Quenching, Biodegradable, Tempering, Vacuum and Normal Speed, along with special grades in water washable versions.

B WATER DILUTABLE POLYMER QUENCHANTS

Polymer quenchants are used as an addition to the quenching water. An insulating film is built up on the hot metal surface, the thickness is in relation to the concentration, and provides targeted reduction of the heat transfer coefficient of water. The solution is incombustible due to the high water content with low emissions of mostly water vapour. Polymer grades are available for immersion and spray application, while other types can replicate oil quenching properties resulting in improved technical, safety and environmental parameters.

C SALT BATHS

A wide range of salts to suit baths for many heat treatment processes are available. Essential advantages are, high flexibility, very uniform temperature spread and short holding time. Special salts are available for quenching, carburising, heat transfer or cleaning baths, and are used in diverse industries such as tool hardening and rubber curing.

D CARBURISING PROTECTIVE PASTES

Innovative water based and conventional solvent based protective pastes for protection against carburisation of steel components in a gas atmosphere are offered. The residues of the protective pastes are removed easily following treatment: either in aqueous cleaning solutions or mechanically.



PETROFER is a system supplier and offers perfectly coordinated chemistry along the entire production process route.

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METALWORKING FLUIDS

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SUPPORT

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