



Press information

Setting standards in metal processing

Henkel's cutting fluids designed to optimize the entire production process

The quality of a cutting fluid influences not only the immediate metal machining step but also downstream processes in metal working such as cleaning, corrosion protection, priming and painting. This total process view is the basis for the technology behind the MULTAN 97-10 D line of high-performance cutting fluids. This water-miscible product developed by Henkel Technologies truly sets new standards in terms of surface finish and economy – across the entire production chain.

Duesseldorf – High levels of precision and productivity are the demands made by the metal working industry when it comes to optimizing production processes. Still, the gains achieved by high-performance machine tools are often offset by extremely high cleaning overheads or sophisticated post-processing steps. One reason for the loss in efficiency could lie in the 'carry-forward' load caused by conventional cutting fluids and in their poor compatibility with downstream processes, resulting for instance, in reduced paint adhesion.

Clean production, perfect surfaces

Aluminum alloys need to be cut to particularly exacting standards. Henkel Technologies has responded to the challenge by developing a new high-performance cutting fluid. As a provider of surface-finishing technologies with over several decades of experience in industrial finishing processes, Henkel has once again succeeded in developing a cutting fluid which is integrated into the value-added production chain, and stands a class apart in performance compared to conventional products. The new fluid is based on a patented emul-

sifier combination and sold under the MULTAN 97-10 D label. It is boron-free and yet demonstrates a high-degree of bacterial stability. It contains no phosphorus, sulphur or chlorine compounds. The formula is semi-synthetic: the oil component is based on a mixture of mineral and vegetable oils, which translates into excellent surface finish and enhanced frictional efficiency. High surface purity and precision are characteristic for components processed using MULTAN 97-10 D. Tool changers, sensors and machine tools remain clean.

Proven benefits

MULTAN 97-10 D has been ranked top in industrial applications, for instance, in the production of aluminum wheels as well as profiles for doors and windows where each step of the value-addition chain involves metal cutting, cleaning and corrosion protection. The finely dispersible emulsion has excellent flow-properties, which cuts down on the carry-forward load and consumption. Due to the low drag-out rate recharging volumes are lower, resulting in highly economic operations. Farther downstream, the volume of processing chemicals needed for sludge treatment is correspondingly lower. MULTAN 97-10 D also offers clear benefits over conventional cutting fluids in terms of working safety. One outstanding feature in this respect is the excellent skin-tolerance of the product, since gloves cannot be worn for some operations in metal cutting. Dermatological tests and high acceptance in plants confirm the excellent skin-tolerance of MULTAN 97-10 D.

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