



Condat Stand: 10 A52

People are increasingly concerned about their impact on the environment, and this includes the wire drawing industry. Reducing total costs by using highly performing lubricants is important, but the responsible use of such products is also a major topic.

Condat's aim is not only to guarantee the high level of performance, but also to provide support towards responsible performance that takes into account social and environmental issues. To achieve this, the company provides solutions that allow increased productivity while respecting personnel and the environment.

Increasing productivity responsibly can mean, for example, drawing faster, using the Condat Vicafil Sumac range, which has a higher softening point compared to usual sodium soaps. It enables efficient drawing in demanding operations such as the production of spring wire, PC strand and steel cord.

It also means less die wear when using, for example, the Vicafil TF range of calcium soaps. These formulas are designed to deliver the correct amount of lubricant between the wire and the die by providing sufficient, homogeneous coverage of the wire.

Securing working conditions by reducing dust in workshops is also a necessity. Dry lubricant used in the wire drawing industry has the potential to generate dust. The problem of dust in the workplace is well documented, whether it is the risk of fire due to ignition of a combustible dust cloud or increased exposure risk for operators. In addition to these hazards, lubricant dust in the workshop can be an indication of non-optimal lubrication. The lubricant needs to be in the die or on the wire surface to perform. Lubricant in the form of dust in the environment is therefore wasted.

Use of a suitable dry drawing lubricant, determined according to the client's specific application, will reduce the amount of dust generated in the

workshop while also reducing overall wire drawing costs. Lubricant grain form, grain size, composition and thermal profile all have an impact on dust formation.



▲ Condat granule pellets reduce dust

Many of Condat's calcium, sodium and mixed soaps are also available in the form of pellets; this form limits the release of fine particles during the filling of the soap box.

Improving the adherence of the lubricant to the wire surface as the lubricant cools is also key to reducing the dust generated at the capstan. The use of lubricants with an unsuitable melting point or too high or too low fat content will generate residues at the die exit and at the capstan, which can result in dust generation. Fully understanding the requirements of the application, in function of the steel type, surface preparation, reductions, speed and cooling efficiency, enables Condat to recommend a lubricant with a chemistry suited to the demands of that application.

Condat's lubricants and surface treatment products have been developed to minimise hazardous components, to meet the latest environmental legislation and even anticipate more stringent upcoming regulations.

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