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The beneficial actions of Molybdenum to reduce friction and to save carbon allowances

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Diluted molybdenum presents two facets for friction reduction:

- as molybdenum compounds in oils and greases and
- as alloying element in tribo-materials.

Treat rates effective for friction reductions by alloying or blending molybdenum range for both cases between 0.3-0.6 wt.-% and reduce friction between 30% to 50% under the regime of mixed/boundary lubrication as well as illuminate an effective and economical action of molybdenum to reduce friction and thus CO₂ in the use phase of machineries.

Speaker Country

Germany

Primary author: Dr WOYDT, Mathias (MATRILUB)

Co-author: MOHRBACHER, Hardy (NiobelCon bvba)

Presenter: Dr WOYDT, Mathias (MATRILUB)

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Track Classification: Molybdenum's sustainability and efficiency aspects from mining to final products