

Title (en)
GRAPHITE-FREE HIGH-TEMPERATURE LUBRICANT

Title (de)
GRAPHITFREIER HOCHTEMPERATUR-SCHMIERSTOFF

Title (fr)
LUBRIFIANT HAUTE TEMPÉRATURE SANS GRAPHITE

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Application
EP 07765571 A 20070622

Priority
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Abstract (en)
[origin: WO2008000700A2] The invention relates to a high-temperature lubricant for the heat treatment of metals, said lubricant consisting of a mixture of pulverulent materials. The aim of the invention is to provide a high-temperature lubricant with good free-flowing properties and behaviour for dissolving scale on heated metallic surfaces, said lubricant being applied in a powder form and enabling a good covering of the metallic surface, having good free-flowing properties without much agglutination even after a long storage period under production conditions, and avoiding the use of graphite. To this end, the mixture contains at least the following components: a) a secondary and/or tertiary calcium phosphate compound, b) a fatty acid or a fatty acid salt, c) boric acid, a boric acid salt (borate) and/or a mineral containing a boric acid salt (borate) and d) condensed alkali phosphate. The constituents of the mixture have an average particle size of 150 µm and the lubricant does not contain any added graphite.

IPC 8 full level
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