

Title (en)  
STEEL FOR EXTRUSION TOOLS

Title (de)  
STAHL FÜR EXTRUSIONSWERKZEUGE

Title (fr)  
ACIER POUR OUTILS D'EXTRUSION

Publication  
**EP 2546374 A1 20130116 (EN)**

Application  
**EP 11752761 A 20110304**

Priority  
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Abstract (en)  
The present invention relates to a steel for extrusion tools characterized for lower cost and tempering resistance higher than that of conventional steel H13, whose chemical composition, in percentage by mass, comprises the following: Carbon between 0.40 and 0.60, Silicon below 1.0, Phosphorus below 0.030; Chromium between 2.5 and 4.5; Molybdenum between 0.5 and 0.7, considering that molybdenum can be replaced by tungsten in a ratio = 2W/1Mo; Vanadium between 0.10 and 1.0; Manganese below 1.0; the remainder consisting essentially of Fe and inevitable deleterious substances. As an option to provide high hardness after nitriding, the Al content of the steel of the present invention can be 1.0; for high toughness purposes, however, this Al content should be kept below 0.10.

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