Title (en)
METALLURGICAL POWDER COMPOSITION AND METHOD OF PRODUCTION

Title (de)
METALLURGISCHE PULVERZUSAMMENSETZUNG UND HERSTELLUNGSVERFAHREN

Title (fr)
COMPOSITION DE POUDRE MÉTALLURGIQUE ET PROCÉDÉ DE PRODUCTION

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Application
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Abstract (en)
[origin: WO2009040369A1] The present invention relates to an annealed pre-alloyed water atomised iron-based powder suitable for the production of pressed and sintered components having high wear resistance. The iron-based powder comprises 10- below 18% by weight of Cr, 0.5-5% by weight of each of at least one of Mo, W, V and Nb and 0.5-2%, preferably 0.7-2% and most preferably 1 -2% by weight of C. The powder has a matrix comprising less than 10% by weight of Cr, and comprises large $M_{23}C_6$-type carbides in combination with M_7C_3-type carbides. The invention also relates to a method for production of the iron-based powder as well as a method for producing a pressed and sintered component having high wear resistance and the component having high wear resistance.

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