

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

Publication

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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<sub>23</sub>C<sub>6</sub>-type carbides in combination with M<sub>7</sub>C<sub>3</sub>-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.

IPC 8 full level

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Cited by

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