

Title (en)

CORROSION PITTING RESISTANT MARTENSITIC STAINLESS STEEL

Title (de)

LOCHKORROSIONSBESTÄNDIGER MARTENSITISCHER ROSTFREIER STAHL

Title (fr)

ACIER INOXYDABLE MARTENSITIQUE RÉSISTANT AUX PIQÛRES DE CORROSION

Publication

**EP 3061841 B1 20181017 (EN)**

Application

**EP 16156815 A 20160223**

Priority

US 201514632159 A 20150226

Abstract (en)

[origin: EP3061841A1] A forged, martensitic, stainless steel alloy is disclosed. The alloy comprises, by weight: about 12.0 to about 16.0 percent chromium; greater than 16.0 to about 20.0 percent cobalt, about 6.0 to about 8.0 percent molybdenum, about 1.0 to about 3.0 percent nickel, about 0.020 to about 0.040 percent carbon; and the balance iron and incidental impurities. The forged, martensitic, stainless steel alloys are highly resistant to pitting corrosion and provide a combination of tensile strength, ductility, and fracture toughness suitable for use as turbine compressor airfoils.

IPC 8 full level

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CPC (source: EP US)

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