

Title (en)
STAINLESS STEEL FOR CUTLERY AND MANUFACTURING PROCESS THEREFOR

Title (de)
ROSTFREIER STAHL FÜR BESTECK UND HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)
ACIER INOXYDABLE POUR COUTELLERIE ET SON PROCÉDÉ DE FABRICATION

Publication
EP 2762595 B1 20180704 (EN)

Application
EP 12836077 A 20120914

Priority
• JP 2011208430 A 20110926
• JP 2012073621 W 20120914

Abstract (en)
[origin: EP2762595A1] The present invention has the ultimate purpose of obtaining cutlery having marked characteristics such as high hardness and high toughness, and provides an intermediate material, an annealed material, and a cold-rolled steel strip for stainless steel for cutlery, and a method for manufacturing them to achieve the purpose. Provided is an intermediate material for stainless steel for cutlery, the intermediate material being a material after hot rolling but before annealing, having a composition, in terms of % by mass, of from 0.46 to 0.72% C, from 0.15 to 0.55% Si, from 0.45 to 1.00% Mn, from 12.5 to 13.9% Cr, from 0 to 1.5% Mo, from 0 to 0.012% B, and the balance being Fe and impurities; and wherein a ratio of a diffraction peak area from an fcc phase (a sum total of diffraction peak areas from (200) plane, (220) plane, and (311) plane) to a diffraction peak area from a bcc phase (a sum total of diffraction peak areas from (200) plane and (211) plane) (the diffraction peak area from the fcc phase/the diffraction peak area from the bcc phase) is 30 or less in an X-ray diffraction of a vertical section.

IPC 8 full level
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CPC (source: EP US)
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Cited by
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