

Title (en)
SHEET OR STRIP OF STAINLESS FERRITIC STEEL, PARTICULARLY FOR EXHAUST SYSTEMS

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Application
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Abstract (en)
[origin: US4726853A] The invention concerns a strip or sheet of ferritic stainless steel of the following composition (% by weight): (C+N)<.060; Si<0.9; Mn<1; Cr=15 to 19; Mo<1; Ni<0.5; Ti<0.1; Cu<0.4; S<0.02; P<0.045; Zr=0.10 to 0.40, and $7(C+N) \leq Zr \leq 7(C+N)+0.15$; Nb=0.25 to 0.55, in non-combined form; Al=0.020 to 0.080; Fe=the balance, in which Al is essentially in solid solution. The process for the production of the sheet or strip comprises a final annealing operation which is carried out at between 980 DEG and 1020 DEG C., typically for 0.5 to 5 minutes at between 990 DEG and 1010 DEG C. The strip or sheet according to the invention is used for any application requiring an economic compromise in regard to ductility (sheet and welds), hot resistance and resistance to corrosion, for example in motor vehicle exhaust manifolds.

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Cited by
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