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optionally $0.001\% \leq V \leq 0.3\%$ optionally $0.001\% \leq Al \leq 0.1\%$ optionally $0.0001\% \leq B \leq 0.003\%$ and impurities resulting from production and having a
PREN= $\% Cr+3.3 (\% Mo)+16 (\% N) \geq 50$.2. The austenitic stainless steel as in claim 1 with high
mechanical strength and corrosion resistance comprising
iron, and, by weight: $20\% \leq Cr \leq 30\%$ $25\% \leq Ni \leq 32\%$ $6\% \leq Mo \leq 7\%$ $0.4\% \leq N \leq 0.5\%$ $0.5\% \leq Mn \leq 5.4\%$ $C \leq 0.06\%$ $Si \leq 1\%$ optionally $0.5\% \leq Cu \leq 3\%$ optionally $0.001\% \leq Nb \leq 0.3\%$ optionally $0.001\% \leq V \leq 0.3\%$ optionally $0.001\% \leq Al \leq 0.1\%$ optionally $0.0001\% \leq B \leq 0.003\%$ and impurities resulting from production and having a
PREN= $\% Cr+3.3 (\% Mo)+16 (\% N) \geq 50$.3. The austenitic stainless steel as claimed in claim 1 with
high mechanical strength and corrosion resistance compris-
ing iron, and, by weight: $25\% \leq Cr \leq 26\%$ $25\% \leq Ni \leq 26\%$ $6\% \leq Mo \leq 7\%$ $0.4\% \leq N \leq 0.5\%$ $0.5\% \leq Mn \leq 5.4\%$ $C \leq 0.03\%$ $Si \leq 0.3\%$ optionally $1\% \leq Cu \leq 2\%$ optionally $0.001\% \leq Nb \leq 0.3\%$

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optionally $0.001\% \leq V \leq 0.3\%$ optionally $0.001\% \leq A \leq 0.1\%$ optionally $0.0001\% \leq B \leq 0.003\%$ and impurities resulting from production and having a
PREN= $\% Cr+3.3 (\% Mo)+16 (\% N) \geq 50$.4. An austenitic stainless steel with high mechanical
strength and corrosion resistance comprising iron and, by
weight,10 $25\% \leq Cr \leq 26\%$ $25\% \leq Ni \leq 26\%$ $6\% \leq Mo \leq 7\%$ $0.4\% \leq N \leq 0.5\%$ 15 $2.5\% \leq Mn \leq 3.5\%$ $1\% \leq Cu \leq 2\%$ $C \leq 0.03\%$ $Si \leq 0.3\%$ 20 and optionally, $0.001\% \leq Nb \leq 0.3\%$

and impurities resulting from production.

5. An austenitic stainless steel as claimed in claim 1
consisting of iron and, by weight, $25\% \leq Cr \leq 26\%$ 25 $25\% \leq Ni \leq 26\%$ $6\% \leq Mo \leq 7\%$ $0.4\% \leq N \leq 0.5\%$ $2.5\% \leq Mn \leq 3.5\%$ 30 $1\% \leq Cu \leq 2\%$ $C \leq 0.03\%$ $Si \leq 0.3\%$ and optionally, $0.001\% \leq Nb \leq 0.3\%$

35 and impurities resulting from production.

6. An austenitic stainless steel as claimed in claim 4 which
comprises less than 0.01 wt % S.

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