

Data sheet and application

DIM L-1.4370[©]

Material no.: 1.4370
DIN 8556: SG X 10 CrNiMn 18 8
EN ISO 14343-A: G/W 18 8 Mn
EN ISO 14343-B: ~SS307
EN 12072: G 18 8 Mn / W 18 8 Mn
AWS/ASME SFA-5.9 ~ER 307

Characteristics

The stainless steel DIM L-1.4370 is particularly suitable for high-strength, ferritic and austenitic steels. Joining of stainless steel. Corrosion-resistant application and connection welding of different types of steel. Buffer layers under hard alloys. Black and white connections. Manganese steels, e.g. 1.3401 (X 120 Mn 12) and cold-nickel steels, eg 1.5637 (10 Ni 14) or 1.5660 (12 Ni 19). Scaling resistance up to 850°C. Cold resistant up to -110°C.

Chemical composition

C	Si	Cr	Ni	Mn	Fe
0,08	0,8	19,5	9,0	6,5	Remainder

Certificate of batch upon request.

Mechanical properties of pure weld metal at room temperature

Yield strength Rp0.2 MPa	Tensile strength Rm MPa	Elongation A (L0=5d0) %	Impact energy KV J
400 N/mm ²	650 N/mm ²	35	80

Processing instructions

Welding argon 100 %, mixed gases M11, M12

Approvals

TÜV, DB, UDT