

Classifications

DIN 8555

MF 23-GF-200-CKZ

Characteristics

NiCrMo alloy with addition of Cobalt designed for hardsurfacing of parts subject to oxidation, corrosion and mechanical stresses at high temperature (1.100 °C). For reduced levels of dilution and an improved weldability, we recommend using a pulsed MIG welding mode.

Microstructure: Solution of the austenitic type

Machinability: Good with metallic carbide tipped tools

Oxy-acetylene cutting: Cannot be flame cut

Deposit thickness: Depends upon application and procedure used

Shielding gas: Argon 98% + Oxygen 2% or Argon 82% + CO₂ 18%

Field of use

Punches for extrusion of steel pipes, hot working tools.

Typical analysis in %

C	Mn	Si	Cr	Ni	Mo	Co	W	Fe
0,03	1,3	0,7	16,0	balance	16,0	2,5	4,0	3,0

Typical mechanical properties

Hardness as welded: 220 HB

Recommended welding parameters

Wire diameter [mm]	Amperage [A]	Voltage [V]	Stick-Out [mm]	Gas-Rate [L/min]
1,6	150-250	20-31	20 max.	15-18
2,4	200-450	20-31	20 max.	18-20