Data sheet

QuP20

AISI P20; M.-No.~1.2311

Is recommended for changes and repairs to heavy duty mould cavities made of materials 1.2311, 1.2312, 1.2162, 1.2738, 1.2764 und 1.2767
The Cr. content in the filler metal increases the tensile strength, edge retention and wear-resistance. Applicable for long term working at temperatures up to 570°C.

Reachable hardness between 38 - 46 HRC.
Dependent upon reworking and welding layers.

Recommended for base materials

1.2311, 1.2312, 1.2162, 1.2738, 1.2764; 1.2767
25CrMo4, 13CrMo 4 4, GS-17 CrMo5 5, 42CrMo4,
AISI4130, AISI4140

Reworking

The weld can be eroded, structured, polished, chrome-plated, etched, nitrated, tempered and hardened.

Material analysis in %

C	Si	Mo	Mn	Cr	Fe
0,36	0,50	0,40	0,80	1,70	Rest

(test certificates upon request.)

Standard / Mechanical Values

Inert gas	Argon	Value of the pure weld
Temperature	20°C	
Yield point Re	N/mm²	>480
Tensile strength Rm	N/mm²	>570
Elongation A (Lo = 5do)	%	>22
Untreated hardness	HRC	38 - 46

Following standard:

Laser welding wires
Rod: 333 mm / 1.000 mm
Spool: K80 / K125 / K250 / SH253 / MA125

The reported values were determined by the manufacturer and / or by a neutral Laboratory.
We cannot guarantee for the accuracy.