

SK STELKAY 21-G

gas shielded metal cored wire

Classifications					
DIN 8555	ASME IIC SFA 5.21				
MF 20-GF-300-CTZ	ERC CoCr-E				

Characteristics

Cobalt base alloy providing excellent resistance to metal-to-metal wear, thermal shocks, oxidation in corrosive environments at high temperature. For reduced levels of dilution and an improved weldability, we recommend using a pulsed MIG welding mode.

Microstructure: Cr and Mo carbides in an austenitic matrix

Machinability: Good

Oxy-acetylene cutting: Cannot be flame cut

Deposit thickness: Depends upon application and procedure used

Shielding gas: Argon 98% + Oxygen 2% or Argon 100%

Welding flux (for dia. 2,4): Record SA

Field of use

Extrusion dies, hot working tools, turbine injectors, valve seats, ingot tong bits.

Typical analysis in %									
С	Mn	Si	Cr	Ni	Мо	Co	Fe		
0,27	1,0	1,2	28,0	2,4	5,0	balance	3,5		

Typical mechanical properties

Hardness as welded: 32 HRC

Recommended welding parameters								
Wire diameter [mm]	Amperage [A]	Voltage [V]	Stick-Out [mm]	Gas-Rate [L/min]				
1,2	110-180	20-31	20 max.	12-15				
1,6	150-250	20-31	20 max.	15-18				
2,4	300-400	20-31	20 max.	18-20				