

# WEARcore Tool 50 Co-S (SK D35-S)

SAW cored wire

Classifications				
EN 14700	DIN 8555			
T Z Fe7	UP 5-GF-50-CT			

### **Characteristics**

Special Iron-Chromium-Cobalt-Molybdenum alloy designed to resist metal-to-metal wear, fatigue, oxidation, cavitation and corrosion at high temperature. The typical hardness can be achieved in the first layer.

Microstructure: Martensite + 15 % ferrite (in first layer)

Machinability: Good with metallic carbide tipped tools

Oxy-acetylene cutting: Cannot be flame cut

Deposit thickness: Depends upon application and procedure used

Welding flux: Record SA, Record SR

### Field of use

Continuous casting driving rollers, dies, mandrels, blanking punches, forming und punching tools, forging dies, swaging dies, pump elements.

Typical analysis in %						
С	Mn	Si	Cr	Мо	Co	Fe
0.12	0.2	0.5	15.0	2.3	13.5	balance

## **Typical mechanical properties**

Hardness as welded: 47 HRC

#### **Recommended welding parameters** Wire diameter Flux-Rate **Travel Speed Amperage** Voltage Stick-Out [mm] [kg per kg wire] [cm/min] [A] [V] [mm] 2.4 35 - 45275 - 45028 - 3030 - 351.1 3.2 325 - 50028 - 3230 - 351.1 40 - 50