

KCH-60CR-O

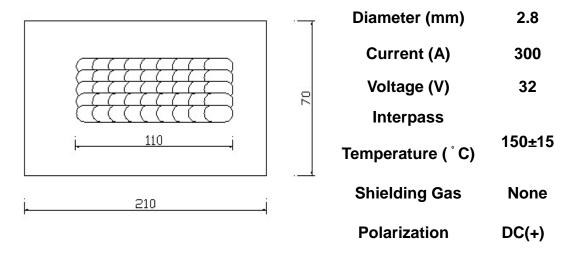
Product Data Sheet

Self-Shielded Flux Cored Wire for Hardfacing

Specification	DIN 8555 : MF 10-GF-60-G		
Applications	It is suitable for wear plates manufacturing and the repair of quarry machines, cement rolls and gyratory crusher liners		
Characteristics	 Weld metal contains primary carbide and eutectic structure. The abrasion resistance is improved due to special carbides with ultrahigh hardness. Good weldability and almost no slag. 		
Note on Usage	 Weld metal is unable to be machined, but it can be ground if necessary. Preheat temperature is 150~250°C for carbon steel, low alloy steel or cast steel base metal. Use KCH-13MC-O for buffer layer. 		

Chemical Composition & Hardness of All Weld Metal

Specimen specification and welding parameter



Hardness of Weld Metal

Layer	1	2	3
Hardness (HRC)	55~58	57~60	58~62

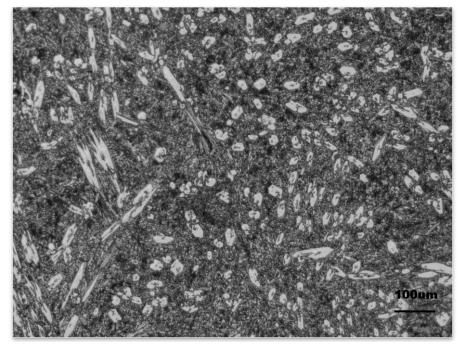
• Chemical Composition of Weld Metal

С	Si	Mn	Р	S	Cr
4.0	1.5	1.4	0.021	0.016	25.50

Available Sizes and Suggested Operating Range

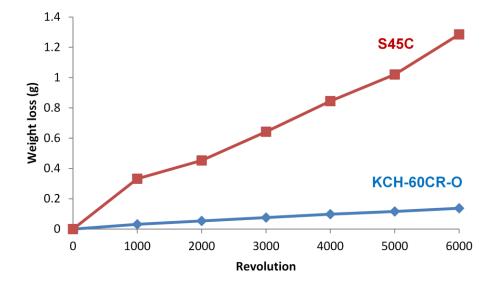
Size (mm)	Voltage (V)	Current (A)	ESO (mm)
2.8	28~33	350~400	40~60

Microstructure of all weld metal



KCH-60CR-O produces a high concentration of small primary and eutectic carbides. It results in a significant improvement in wear performance.

Wear test of hardfacing layer



According to ASTM G65A, wear resistance of KCH-60CR-O is 10 times than one of S45C.

This information is provided solely for the purpose of confirming product conformance with applicable standards. The serviceability of a product or structure utilizing this type of information is and must be the sole responsibility of the builder/user. Many variables beyond the control of Kuang Tai Metal IND CO., LTD. affect the results obtained in applying this type of information. These variables include, but are not limited to, welding procedure, shielding gas, plate chemistry and temperature, weldment design, fabrication methods and service requirements.