

# RANOMATIC<sup>®</sup> 23

- **General Description**

Ranomatic 23 is an outstanding open arc wire with high abrasion resistance, good corrosion resistance and high hardness at elevated temperature. It is used where abrasion at high temperature is encountered. Deposit is a highly alloy complex carbide in a very tough matrix. Excellent high temperature abrasion resistance up to 1500°F (816°C)

**Typical applications:**

Steel Industry: Sinter claw breakers, sieve, slag rake and hot ash elbows.  
Cement Industry: Cement screws, dryers, hot cement cones and cement furnace parts  
Mining Industry: Excavator bucket teeth and slurry pipes.

- **Welding Parameters**

Diameter	7/64" (2.8mm)	.045"	1/16"
Current	DCRP	DCRP	DCRP
Amperage	350 – 600	150-200	175-350
Voltage	30-34	23-25	24-28
Shielding Gas	None, open arc wire	Open arc	Open arc
Wire Extension	1" – 1 3/4" (25 – 45mm)	5/8" – 1"	3/4" – 1"

- **Deposit Characteristics**

Deposit Layers	2 Max.
Hardness (two layers)	HRC 58 – 62
Abrasion Resistance	Excellent
Impact Strength	Low
Surface Cross Check	yes
Hot Abrasive Wear Resistance	Up to 1500°F (816°C)

- **Deposit Chemistry**

C	Mn	Si	Cr	Mo	Cb	W	V	Fe
5.5	0.5	0.5	21	6.0	6.0	2.0	1.0	Balance

**RANKIN<sup>®</sup>**

Hardfacing Products

**Rankin<sup>®</sup> Industries, Inc.**  
400 S. Rockefeller Ave.  
Ontario, CA 91761  
909.483.3222  
Toll Free 800.854.2159  
Fax 909.483.3233  
Email [sales@rankin.com](mailto:sales@rankin.com)