

RANITE[®] D

General Description

Ranite D (and its wire equivalent, Ranomatic D) produces deposits which are the hardest of any iron-based hardfacing product. All weld-metal Rockwell C hardness is 63-68. This high hardness in combination with complex carbide formations of boron and chromium make Ranite D deposits unsurpassed in abrasion resistance. And, even with this high hardness, deposits provide moderate to good impact resistance.

Typical applications

Ranite D is widely used throughout a variety of industries where severe abrasion is present.

Welding Parameters

Size	1/8"	5/32"	3/16"	1/4"
Amperage	125-140	140-160	175-200	200-250

Deposit Characteristics

Abrasion Resistance	Excellent
Compressive Strength	Moderate
Impact Resistance	Moderate
Magnetic:	
On Carbon Steel	Slightly
On Manganese	No
Hardness on all Weld-Metal	63 – 68
on Carbon Steel	60 – 62 (2 layer deposit HRC)
on Manganese	56 – 60 (2 layer deposit HRC)
Surface checks	Yes
Machinable Deposits	No
Forgeable Deposits	No
Maximum Number Layers	2

Welding Procedures

Can be applied AC or DC, either polarity (reverse preferred), using either stringer or weave beads. Electrode can be dragged if desired. Out-of-position weldability is excellent and slag is self-peeling.

RANKIN[®]

Hardfacing Products

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