

PRODUCT DESCRIPTION

The PROWELD 80-R hard facing welding electrode is a high-quality electrode specifically designed for hard facing applications, offering exceptional hardness and wear resistance. It is suitable for rebuilding and protecting surfaces that are subjected to severe abrasion and impact, providing extended service life and enhanced performance.

KEY FEATURES

High Hardness: The PROWELD 80-R electrode is formulated to produce weld deposits with a hardness of approximately 60 HRC (Rockwell Hardness C Scale), making it ideal for applications requiring excellent resistance to abrasion, erosion, and impact.

Wear Resistance: This electrode offers outstanding wear resistance, ensuring that the hard faced surfaces can withstand harsh operating conditions and prolonged exposure to abrasive environments.

Versatile Application: The PROWELD 80-R electrode is suitable for various industries and applications, including mining, construction, agriculture, and manufacturing, where components and equipment require enhanced wear protection.

Crack Resistance: The electrode composition provides excellent crack resistance in the hard faced deposit, minimizing the risk of weld cracking and ensuring the integrity of the hard faced surface.

Easy Application: The PROWELD 80-R electrode offers good arc stability and smooth weld bead appearance, allowing for easy and precise application on different base materials.

Machinability: Although the PROWELD 80-R electrode produces hard and wear-resistant deposits, it is still Machineable, allowing for post-weld machining and finishing as needed.

APPLICATIONS

The PROWELD 80-R hard facing electrode is commonly used for the following applications:

- Rebuilding worn-out parts, such as crusher jaws, hammers, excavator teeth, and conveyor screws
- Protecting surfaces exposed to abrasive and erosive environments, including chutes, liners, buckets, and wear plates
- Repairing and enhancing the performance of agricultural implements, such as plows, harrows, and tillage equipment
- Extending the service life of industrial machinery components, such as rollers, gears, and sprockets
- Hard facing applications where high hardness and wear resistance are required



DIAMOND PROWELD 80-R

HARD FACING
WELDING ELECTRODE

CLASSIFICATION

EN 14700 / JIS DF3C-B

CHEMICAL COMPOSITION OF

WELD METAL ANALYSIS (%) (TYPICAL VALUES)

C	Mn	Si	Cr
5.2	1.6	1.03	35.4
Mo	P	S	Ni
1.58	0.04	0.03	0.1

HARDNESS OF WELD METAL

V.H.N.	HRC
650 - 800	60 - 65

WELDING PARAMETERS

Recommended welding parameters for the welding electrode may vary depending on the specific welding application, base material, and joint configuration. It is crucial to refer to the manufacturer's guidelines and conduct proper testing to determine the optimal parameters for your specific requirements.

STORAGE & HANDLING

To ensure the electrode's performance and longevity, please observe the following storage and handling recommendations:

- Store the electrodes in a dry environment at temperatures between 50°F to 100°F (10°C to 38°C).
- Keep the electrodes in their original packaging or a suitable container to protect them from moisture, dust, and other contaminants.
- Avoid exposure to extreme heat, humidity, or direct sunlight.
- Handle the electrodes with clean, dry gloves to prevent contamination.

Manufactured by;



SHANGHAI INDUSTRIES (PVT) LTD.

Manufacturers of Arc Welding Electrodes

Exclusively Manufactured for;



MILLWALA WELDING COMPANY PVT. LIMITED