



CHROME WELD™ FLOW is a unique piping system that is ideal for material movement with high levels of abrasion resistance. It is a premium grade of chromium carbide wear pipe, providing up to ten times the life of a carbon steel pipe. It is produced with a steel pipe and hardfaced/overlayed with welding wire. CHROME WELD™ FLOW will yield outstanding results if you follow these helpful instructions.

Fabrication Facts

Cutting: Plasma burning, air arc, abrasive saw cutting, or waterjet.

Machining: The overlay surface can be finished by grinding only. EDM, plasma arc cutting, or carbon-arc gouging may produce countersunk holes for bolts. Pre-machined mild steel inserts may be welded into straight holes for additional machining. CHROME WELD™ FLOW cannot be machined by ordinary methods.

Cold Bending: Material is not readily formable.

Welding: CHROME WELD™ FLOW overlay pipe can be joined by welding substrate to substrate using 309 weld wire/rod. Fittings include bends, elbows, tees and reducers. All interior weld seams and all other joints exposed to wear should be protected by a cap weld of CHROME WELD™ FUSION.

Mechanical Information

CHROME WELD™ FLOW typical hardness ranges from 52-56 HRC with a single weld pass thickness. On a double weld pass the hardness increases to 58-62 HRC.

General Overlay Chemistry

- » Diameters Available from 5" – 48"
- » Lengths will vary based on diameter of the pipe.
- » CHROME WELD™ FLOW displays excellent abrasion resistance and will withstand continuous moderate impact.
- » CHROME WELD™ FLOW overlay will remain abrasion resistant at temperatures up to 1100°F.
- » Standard wall thicknesses range from 1/8" – 3/8"
- » Your specific application needs, including custom requirements (thickness, alloy and size), are capable at JADCO.



The JADCO process produces a microstructure consisting of fully austenitic matrix filled with primary carbides. This structure provides outstanding abrasion resistance in the most challenging applications.

Applications

Coal Processing	Power Generation	Pulp and Paper
Dredging Lines	Sand Slurry	Mining Back