PARTSBENDER
PARTS MADE EASY

SPP Q150M EQUIVALENT PARTS

Technical Data

Why Choose Our CD4MCu Duplex Stainless Steel Alloy for Your Pumps?

At PartsBender, we listen to our customers. One recurring problem stood out – rapid corrosion and wear of impellers and wear plates, leading to increased lifecycle costs.

That's why we took action. We've engineered impellers and front wear plates using **CD4MCu Duplex Stainless Steel**, a high-performance alloy designed to withstand harsh conditions.

What does this mean for you?

- **Increased Durability:** Reduced corrosion and wear for longer-lasting components.
- **Enhanced Pump Unit Utilization:** Keep your operations running longer without unplanned interruptions**.**
- **Cost Savings:** Lower repair and replacement expenses over time.

"Investing in Our CD4MCu Impeller and Front Wear Plate ensures superior performance, extended service life, and lower maintenance costs."

Part Information

	PartsBender Impeller	PartsBender Front Wear Plate
Material	CD4MCu Duplex Stainless Steel	CD4MCu Duplex Stainless Steel
Part Number	G9C28-0001-CD1	G9C56-0001-CD1
OEM Part Number	19639.168	13658.123

Material Comparison

Function	CD4MCu Duplex Stainless Steel	Stainless Steel 316	Cast Iron OEM
Corrosion Resistance	**Ideal for handling chemically aggressive and corrosive fluids, including seawater, acidic solutions, and industrial wastewater.**	Vulnerable to pitting and crevice corrosion in saline or high-chloride environments.	Prone to rust and rapid corrosion when exposed to water or corrosive environments.
Abrasion Resistance	**Excellent wear resistance when handling abrasive slurries or fluids with suspended solids.**	Prone to wear and erosion when exposed to abrasive particles.	Wears quickly in abrasive conditions, leading to frequent replacements and maintenance.
Service Life	**Higher mechanical strength, better erosion resistance, and corrosion protection result in significantly extended service life.**	Shorter lifespan in abrasive or aggressive chemical environments.	Brittle and susceptible to cracking, erosion, and corrosion, reducing lifespan.
Versatility	**Can handle a wide range of fluid types, including corrosive, abrasive, and high-temperature fluids.**	Best suited for clean, mildly corrosive environments and less effective in abrasive or chemically aggressive conditions.	Limited to clean, non-corrosive, and non-abrasive fluids.
Impact Resistance	**Higher resistance to mechanical shocks, impact, and fatigue due to its duplex microstructure.**	Moderate impact resistance, but lower than CD4MCu	Brittle and more likely to fracture under impact or thermal shock.
Cost	**Higher initial cost but lower total cost of ownership due to reduced maintenance, extended service life, and fewer replacements.**	Slightly lower initial cost but higher total ownership costs in demanding environments.	Lower upfront cost but higher long-term maintenance and replacement expenses.

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Technical Process

How do we do it?

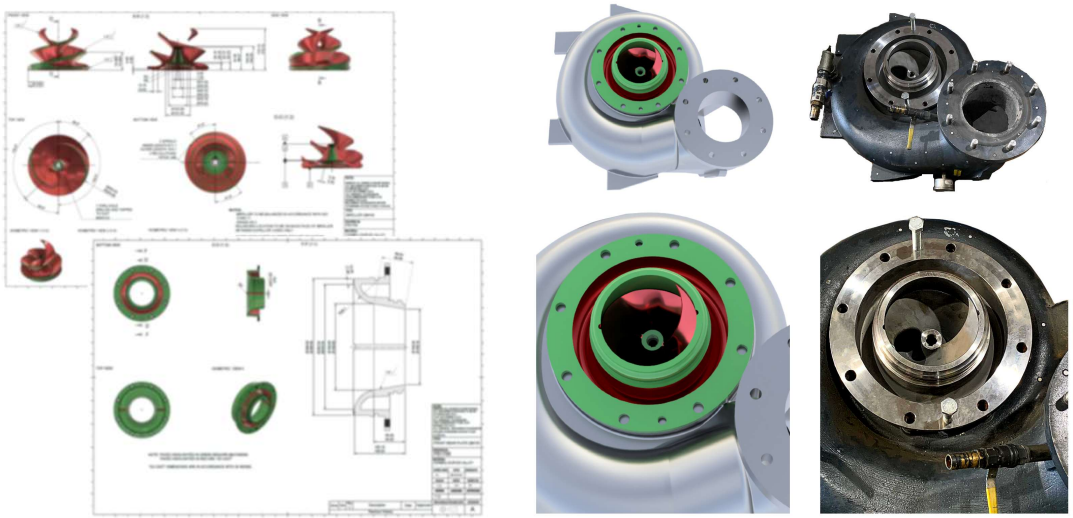
We take a hands-on approach to quality and precision.

By carefully selecting suppliers and creating our own 3D models and manufacturing drawings, we ensure products meet required specifications and standards.

A comprehensive First Article Inspection (FAI) is performed on every product, encompassing engineering documentation, raw materials, and all applicable manufacturing and finishing processes, including moulding, casting, machining, anodisation, hardening, and functional testing.

Independent third-party verification, including material analysis and Coordinate Measuring Machine (CMM) checks, provides an added layer of quality assurance.

PartsBender v Original Impeller



Design to Fitting Process

PartsBender Wear Parts in CD4MCu Duplex Stainless Steel