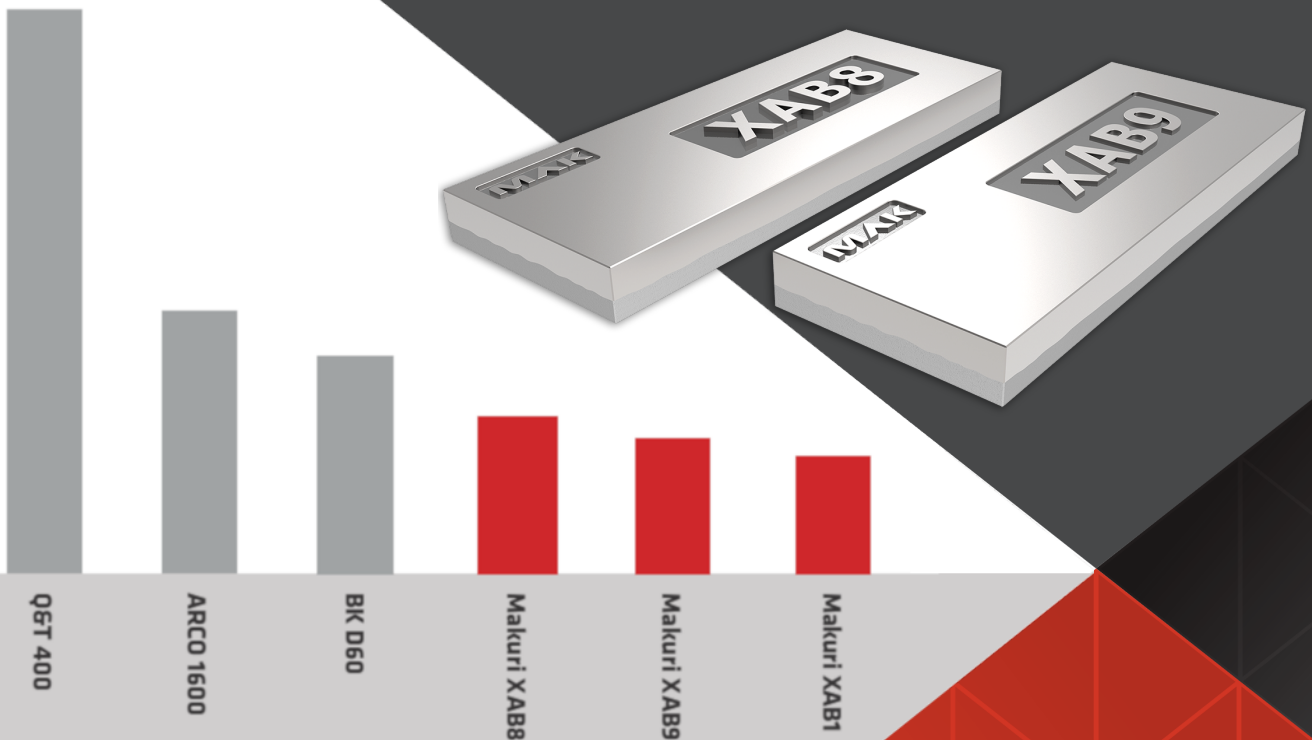


Makuri MAK-Hard Forged Bimetallic Wearplate

Both grades of XAB 8 and XAB 9 contain Titanium, Tungsten, Vanadium, Niobium, Molybdenum, Chromium and Carbon alloyed with Iron to form extremely low friction, abrasion, impact and corrosion resistant wear surfaces. This wear surface is forged bonded onto construction-grade steel to form extremely tough and wear resistant bimetallic wear plates.

XAB 8 is for heavy duty applications and XAB 9 is for extreme duty applications.

Independent University testing at TUNRA, shows they can both outperform any AR, Chrome carbide or ARCO plate on the market except for our cast XAB material.



**Wear Rates Under High Impact,
Coarse Particle Abrasion**

Source: TUNRA (2016),
"Impact Wear testing, report # 8830"
University of Newcastle,
New South Wales

Technical Details

General Characteristics		
Wear Surface Appearance	Similar to stainless steel with a smooth grey surface and little no stress relief cracking allowing ingress of acids	
Wear Surface Roughness and Friction	Low friction, hard, high density materials that polish up with use to further reduce digging friction, hold-ups and carry back	
Applications		
	XAB 8	XAB 9
Heavy Duty Abrasion & Impact	✓	✓
Extreme Duty Abrasion & Impact		✓
Alloying Elements and %		
Titanium (Ti), Tungsten (W), Vanadium (V), Molybdenum (Mo) Niobium (Nb), Manganese (Mn), Chromium (Cr) and Carbon C	31.5%	35%
Carbide Hardness		
Hardness Brinell Tungsten Ball (HBW)	653	710
Hardness Rockwell C Scale (HRC)	60	63
Corrosion Resistance		
	XAB 8	XAB 9
High		✓
Very High	✓	

Sheet Sizes and Thicknesses	XAB 8	XAB 9
0.6 m x 3m	✓	✓
1m x 3m	✓	
5/5, 6/7, 8/9, 10/11, 12/11	✓	
17/11, 20/11	✓	✓
24/13		✓
Cutting		
Recommended		
Plasma cutting with 150 amps or higher	✓	✓
Alternative		
Cutting wheel silicon carbide	✓	✓
Air carbon arc cutting	✓	✓
Oxy aceteylene	✗	✗
Rolling Radii internal & external		
Internal		
Internal Rolling radius <20mm total thickness	20 x plate thickness	
Internal Rolling radius 20<30mm total thickness	30 x plate thickness	
Internal Rolling radius >30mm total thickness	40 x plate thickness	
External		
External Rolling radius <20mm total thickness	50 x plate thickness	
External Rolling radius 20<30mm total thickness	70 x plate thickness	
External Rolling radius >30mm total thickness	90 x plate thickness	
Welding & Hardfacing		
Installaion welding of Base plates	don't weld up into the hard facing	
Hard facing matching welds or repairing forged overlay	MAK-Wire Titanium grade	

Patented Process

Makuri's MAK-Hard forged bimetallic plates are manufactured using a patented forging process while the wear material is solidifying. This produces an extremely smooth, dense product that contains very few internal flaws with a negligible amount of cracking occurring. It is this patented process that gives these materials their significant performance advantages

Composition

The unique composition of the these materials is not disclosed and is considered propriety information of Makuri Technology.

Makuri's industry leading 3 level Guarantee

All Makuri Technology parts and wear liners are covered under our Level 1 – 5F guarantee which is an industry leading, best in class, guarantee that guarantees the Fit, Form, Function and also being free of Faulty workmanship or Faulty materials (5F) Additional guarantees can also be provided, based on agreement, to cover;

- Lowest cost per tonne and
- Lowest Total Cost of Ownership

See our website or Terms & Conditions of Sale for more details