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Mild Steel
Stainless Steel
Aluminum
Titanium

Quick-Lok Disc				
Resin Fibre Disc			•	
Flap Disc				
PSA Disc				
Belt				

Compare the benefits of Performance Coated zirconia alumina to untreated abrasives on aluminum applications.

Customer

Designer and manufacturer of high performance aluminum vessels specializing in fast ferries and luxury yachts.

ARC Products

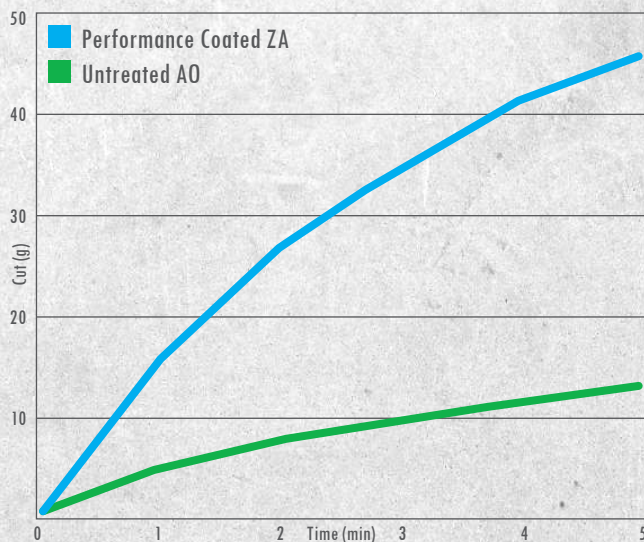
37203W 4-1/2 x 7/8" Zirconia Alumina Resin Fibre Disc, 36 Grit

Competitive Products

4-1/2 x 7/8" Aluminum Oxide Resin Fibre Disc, 36 Grit

Test Method

Testing was administered by hand using a 4-1/2" angle grinder operating at 10,000 RPM. Products were used for 5 minutes each on a 12 x 2 x 1/4" 6061 aluminum bar, weighed every minute. The discs were weighed before and after testing to determine product life.



Conclusion

The Performance Coated zirconia disc performed over 250% better than the untreated aluminum oxide disc. The competitive material quickly loaded with aluminum, slowing the cutting action of the resin fibre disc.

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Direct performance comparison of PREDATOR™ against zirconia and aluminum oxide flap discs on stainless steel.

Products Used

71-10825AF 4-1/2 x 7/8" PREDATOR™ Flap Disc, 60 Grit

10825AF 4-1/2 x 7/8" Zirconia Flap Disc, 60 Grit

1061355-2 4-1/2 x 7/8" Aluminum Oxide Flap Disc, 60 Grit

Test Method

Testing was administered by hand, using a 4-1/2" angle grinder operating at 11,000 RPM for 15 minutes. The work piece, a 12 x 2 x 1/4" stainless steel bar, was weighed every minute to determine accurate cut rates. All flap discs were weighed before and after the test to help determine product life.

Conclusion

The 60 grit PREDATOR™ flap disc outperformed the zirconia product by 17% in total cut.

The aluminum oxide flap disc was unable to last the entire 15 minute test. At the end of the test, the aluminum oxide product only cut 27% of the PREDATOR™ total.

