



CERIUM OXIDE POLISHING COMPOUND







- White Cerium Based Polish
- TREO 94%
- Cerium Oxide 64%
- ✓ Average Particle Size 2.4µ
- Suspension Treated YES
- Standard Packaging 20 Kg Pail











FEATURES

- Breakthrough polish engineering
- Fast-thorough dispersion
- ✓ Unprecedented suspension
- Exceptional polishing speed
- Soft Settling
- Non-clumping
- Readily sheets





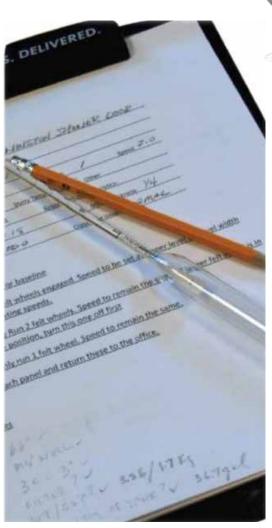




BENEFITS

- Increase polishing wheel life
- Increase polishing spindle life
- Increase polishing speeds
- Increase finish quality
- Increase production
- Increase efficiency
- Increase profits





THE TEST

AXION vs POPULAR POLISH

Compare the overall performance:

- Surface Finish Quality
- Polishing Efficiency
 - Speed
 - Baumé
 - Suspension
 - Dispersion
 - Carry-out





AXION vs POPULAR POLISH

Beveller: 1992 Mini Maxi 371

Speed: 2 meters/minute

Bevel Width: 1 inch

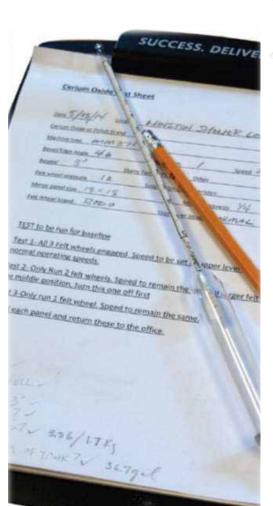
Felt Wheel Pressure: 1 amp

Baumé: 3° (see note)

Slurry Temperature: 79°F

Type of Felt Wheels: NOVA

Note: Volume of polish required to achieve as well as maintain target Baumé during the test period was 40% higher for popular polish.







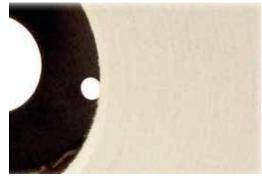
POPULAR POLISH WITH NOVA FLETS

- Charged System With POPULAR POLISH
 2.4Kg/138.92I = 3° Baumé
- Three Panels (18" x 18")
 - First Panel 3 Felts
 - Second Panel 2 Felts
 - Third Panel 1 Felt
- Retained the Panels for Evaluation











THE TEST PROCEDURE

AXION vs POPULAR POLISH

- Thoroughly Cleaned Screen and Tank
- Replaced Felts
- Charged System With AXION
 1.7Kg/138.92I = 3° Baumé









THE TEST PROCEDURE

AXION vs POPULAR POLISH

- Ran Test With AXION
- Three Panels (18" x 18")
 - First Panel 3 Felts
 - Second Panel 2 Felts
 - Third Panel 1 Felt
- Retained the Panels for Evaluation





TEST RESULTS

POPULAR POLISH

- First Panel 3 Felts (Average)
 Slight Haze
- Second Panel 2 Felts (Below Average)
 Visible Grind Lines
 Fine Scratches
 Minor Haze
- Third Panel 1 Felt (Unacceptable)
 Obvious Grind Lines
 Light Scratches
 Very Hazy





TEST RESULTS

AXION

- First Panels 3 Felts (Off the Chart)
 Superior Finish
- Second Panels 2 Felts (Above Average)
 Some Topography But Polished
- Third Panels 1 Felt (Almost Acceptable)
 Faint Grind Lines
 Slight Haze



SUMMARY/OBSERVATIONS

A MODEL OF EFFICIENCY AND EFFECTIVENESS

By pre AXION standards, the popular polish is a good product. WSD was producing a better than average finish, but they were doing a better than average job of managing the polishing process as well as the overall condition of their machine.

We determined that 2m/min at 3.5° Baumé was the popular polish's breaking point. The popular polish exhibits "typical" settling characteristics. Without agitation, it settles and clumps in the polishing compartment, hoses and tank.

Axion is well engineered. It features consistent particle hardness and size as well as an effective chemical supporting package. It disperses immediately with typical Bovone cerium tank agitation. This was evident with the change in Baumé readings directly after each addition. It stays in suspension during use and settles slowly and softly when idle. It totally re-suspends within minutes of agitation. Polishing compartment and tank can be cleaned with water hose. Polishing performance (qualitatively) is off the chart. Axion is highly chemically reactive and is capable of out polishing the grinding operation. It was noted that routine diamond wheel "tweaking" during beveling was dramatically reduced. Axion performed well with both Rodo and Nova Felt polishing wheels at low pressure.



SUMMARY/OBSERVATIONS

- Increase polishing wheel life
- Increase polishing spindle life
- Increase polishing speeds
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