



NORTON

SAINT-GOBAIN

**NORaX**<sup>®</sup>

CERAMIC U936  
ENGINEERED ABRASIVE BELTS

## An Engineered Solution Helps Reduce Steps

### FOR CENTERLESS, CYLINDRICAL, ROLL & FLAT GRINDING AND FINISHING

Streamline your process with the efficiency of Norton products on high-pressure applications. Start grinding with our Norton Blaze product and finish with the Norton NORaX U936 products. Not only can you reduce steps in your finishing process but you can also reduce the total cost of your precisely finished parts.

#### KEY MATERIALS

- Stainless steel
- Hard-to-grind alloys
- Most metals (ferrous and nonferrous)

#### TYPICAL APPLICATIONS/MARKETS

- Tubes, pipes, cylinders, and shafts
- Bars
- Primary automotive components
- Oil, gas, and mining components
- Medical and sports equipment

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## FEATURES

- Unique, engineered quad pattern provides more abrasive contact area makes this ideal for high-pressure applications, with no "break-in" period as with competitive engineered ceramic belts
- 100% high-performance, micron-graded Norton ceramic grain provides higher cut rates while maintaining more consistent finishes, cool cutting
- Up to more than 2X the life versus competitive engineered ceramic belts with lower specific grinding energy
- High-performance, durable resin bond technology provides minimal, consistent wear across belt results in consistent part finishing (reduces barber pole effect)
- Premium, Y-weight polyester cloth waterproof backing is durable; stands up to high-pressure, coolant applications
- Excellent choice on multi-head machines resulting in reduced downtime, belt changes, and scrap; improved productivity
- Available in full grit range: X200 (P80), X100 (P150), X65 (P220), X45 (P320), X30 (P600), X16 (P1200), and X9 (P1500)
- Ideal grit range for dimensioning centerless and similar applications making it an excellent finishing belt to follow a Norton Blaze R980P belt in a multi-step process

## BENEFITS

## AVAILABILITY

**SHAPES:** Belts up to 24" wide, rolls, and discs    **GRIT SIZES:** X200, X100, X65, X45, X30, X16, X9    **JOINT:** Plyweld    **FLEX:** Standard = CF; Optional = LF

FEPA GRIT RANGE	24	36	40	50	60	80	100	120	150	180	220	240	320	400	600	800	1000	1200	1500	2000
<b>NORaX U936</b>							X200		X100		X65		X45		X30		X16		X9	
<b>BLAZE R980P</b>	X	X	X	X	X															

## CASE STUDY

### 1045 Carbon Steel

**BELTS:** 9" x 120" X100 and X65 grit NORaX U936 vs. competitive engineered ceramic belts

**APPLICATION:** Centerless grinding hydraulic cylinders after heat treat

**MACHINE:** 6-head, 40 hp centerless grinder

**CONTACT WHEEL:** 12.5" dia. 90D 2/1 serrated (X100); 90D smooth (X65)

**SPEED:** 1,925 RPM; 6,300 SFPM

**RESULTS:** NORaX belts ran 69 parts; the competitive belt ran 32 parts

### Stainless Steel Airfoils

**BELTS:** NORaX U936 X100 vs. competitive engineered ceramic X100 belt

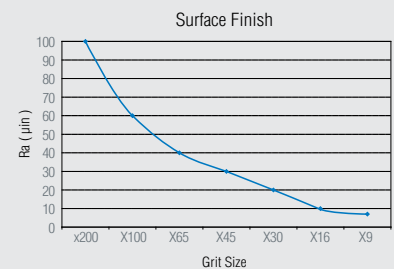
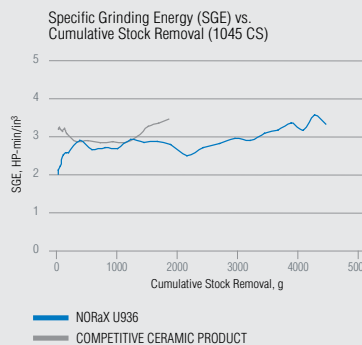
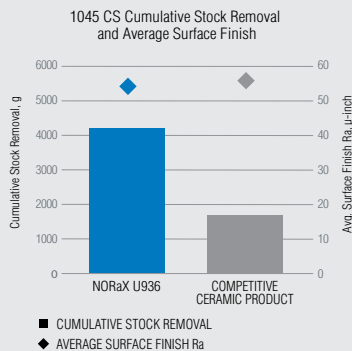
**APPLICATION:** Automatic polishing after milling

**MACHINE:** 6-axis belt grinder

**CONTACT WHEEL:** 4.7" dia. 45D 2/1 serrated

**SPEED:** 3,024 RPM; 3,720 SFPM

**RESULTS:** NORaX U936 had twice the life of the competitive belt. The NORaX belt finished the entire airfoil (front and back). The competitive belt finished only the front.



## BEST

NORTON NORaX U936, Blaze R980P

## BETTER

Defer to BEST Product

## GOOD

Defer to BETTER Product

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