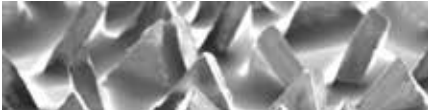


NEW 3M™ CUBITRON™ II ROLOC™ DURABLE EDGE DISC 947A

Designed for speed and durability, these quick-change discs come in a range of sizes and grades to give you a faster, more consistent cut each and every time.



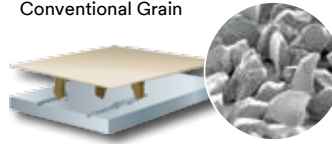
| Features | Applications |
|--|--|
| <ul style="list-style-type: none"> 3M Precision-Shaped Ceramic Grain Technology  | <ul style="list-style-type: none"> Deburring Blending Cleaning Finishing |
| Benefits† | Grit |
| <ul style="list-style-type: none"> Loading resistant Longer lasting Faster cutting Quick-change capability | <ul style="list-style-type: none"> 40+ 60+ 80+ 120+ |

CUBITRON™ II

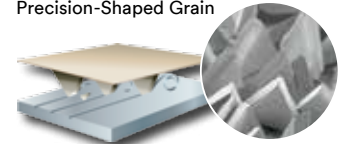
3M Precision-Shaped Grain Technology

The 3M™ Cubitron™ II RoLoc™ Durable Edge Disc 947A features 3M Precision-Shaped Ceramic Grain. This revolutionary technology features triangular shaped ceramic minerals. As those minerals wear during use, they fracture at angles that continually form sharp points. This allows the minerals to keep slicing through the substrate with ease, while helping the grain wear more evenly. No other industrial abrasive delivers the same kind of performance, feel or finish.

Conventional Grain



Precision-Shaped Grain

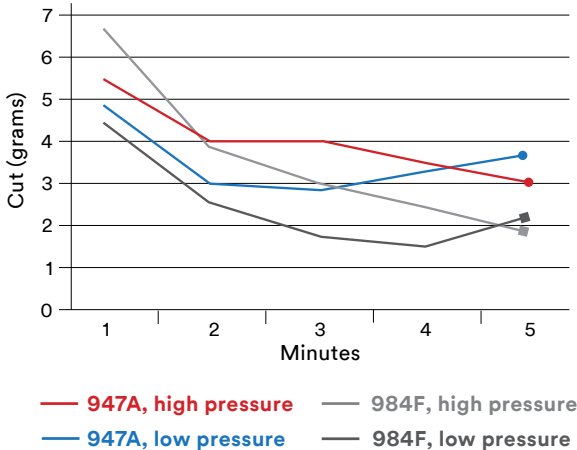


3M Precision-Shaped Ceramic Grain cuts faster, lasts longer, and produces a more consistent finish.

† In comparison to conventional grain

Performance Graphs

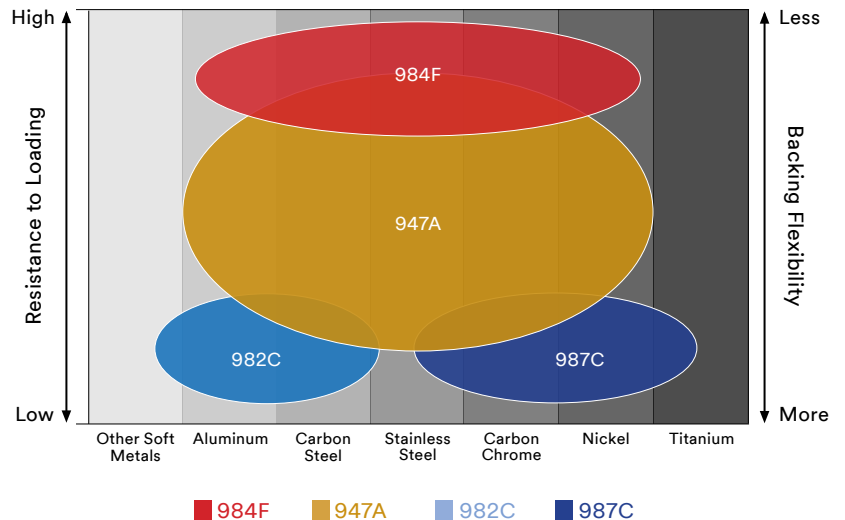
60+ on Aluminum



— 947A, high pressure — 984F, high pressure
— 947A, low pressure — 984F, low pressure

3M™ Cubitron™ II RoLoc™ Durable Edge Disc 947A delivers consistency with either high or low pressure, while maintaining a high cut rate.

Our new lineup for 3M™ Cubitron™ II Abrasive Discs



■ 984F ■ 947A ■ 982C ■ 987C

3M™ CUBITRON™ II ROLOC™ DURABLE EDGE DISC 947A

| RoLoc™ Durable Edge Disc TR 947A | | | | |
|----------------------------------|----------|-------|--------|---------|
| UPC | SIZE | GRADE | DISCS | MAX RPM |
| 051141-54239-3 | 1-1/2 in | 40+ | 50/200 | 30,000 |
| 051141-54240-9 | 2 in | 40+ | 50/200 | 25,000 |
| 051141-54241-6 | 3 in | 40+ | 50/200 | 20,000 |
| 051141-54242-3 | 4 in | 40+ | 25/100 | 12,000 |
| 051141-54247-8 | 1-1/2 in | 60+ | 50/200 | 30,000 |
| 051141-54248-5 | 2 in | 60+ | 50/200 | 25,000 |
| 051141-54249-2 | 3 in | 60+ | 50/200 | 20,000 |
| 051141-54250-8 | 4 in | 60+ | 25/100 | 12,000 |
| 051141-54255-3 | 1-1/2 in | 80+ | 50/200 | 30,000 |
| 051141-54256-0 | 2 in | 80+ | 50/200 | 25,000 |
| 051141-54257-7 | 3 in | 80+ | 50/200 | 20,000 |
| 051141-54258-4 | 4 in | 80+ | 25/100 | 12,000 |
| 051141-54263-8 | 1-1/2 in | 120+ | 50/200 | 30,000 |
| 051141-54264-5 | 2 in | 120+ | 50/200 | 25,000 |
| 051141-54265-2 | 3 in | 120+ | 50/200 | 20,000 |
| 051141-54266-9 | 4 in | 120+ | 25/100 | 12,000 |

| Accessories | | | |
|---|----------------|--------------------|--------------------|
| Needed Accessories | UPC | Recommended Tool 1 | Recommended Tool 2 |
| Roloc Disc Pad TR, Hard, 1-1/2 in 1/4-20 Internal | 051144-45100-5 | 051141-20231-0 | 051141-28341-8 |
| Roloc Disc Pad TR, Hard, 2 in 1/4-20 Internal | 051144-45096-1 | 051141-20231-0 | 051141-28341-8 |
| Roloc Disc Pad TR, Hard, 3 in 1/4-20 Internal | 051144-45091-6 | 051141-20231-0 | 051141-20232-7 |
| Roloc Disc Pad TR, Hard, 4 in 5/8-11 Internal | 051144-83489-1 | 051141-28408-8 | |
| Roloc Disc Pad TR, Hard, 1-1/2 in 1/4-20 Internal | 051144-45100-5 | 051141-20231-0 | 051141-28341-8 |
| Roloc Disc Pad TR, Hard, 2 in 1/4-20 Internal | 051144-45096-1 | 051141-20231-0 | 051141-28341-8 |
| Roloc Disc Pad TR, Hard, 3 in 1/4-20 Internal | 051144-45091-6 | 051141-20231-0 | 051141-20232-7 |
| Roloc Disc Pad TR, Hard, 4 in 5/8-11 Internal | 051144-83489-1 | 051141-28408-8 | |
| Roloc Disc Pad, Hard TR, 1-1/2 in 1/4-20 Internal | 051144-45100-5 | 051141-20231-0 | 051141-28341-8 |
| Roloc Disc Pad TR, Hard, 2 in 1/4-20 Internal | 051144-45096-1 | 051141-20231-0 | 051141-28341-8 |
| Roloc Disc Pad TR, Hard, 3 in 1/4-20 Internal | 051144-45091-6 | 051141-20231-0 | 051141-20232-7 |
| Roloc Disc Pad TR, Hard, 4 in 5/8-11 Internal | 051144-83489-1 | 051141-28408-8 | |
| Roloc Disc Pad TR, Medium, 1-1/2 in 1/4-20 Internal | 051144-45099-2 | 051141-20231-0 | 051141-28341-8 |
| Roloc Disc Pad TR, Medium, 2 in 1/4-20 Internal | 051144-45095-4 | 051141-20231-0 | 051141-28341-8 |
| Roloc Disc Pad TR, Medium, 3 in 1/4-20 Internal | 051144-45092-3 | 051141-20231-0 | 051141-20232-7 |
| Roloc Disc Pad TR, Medium, 4 in 5/8-11 Internal | 051144-83242-2 | 051141-28408-8 | |

| RoLoc™ Durable Edge Disc TSM 947A | | | | |
|-----------------------------------|----------|-------|--------|---------|
| UPC | SIZE | GRADE | DISCS | MAX RPM |
| 051141-54243-0 | 1-1/2 in | 40+ | 50/200 | 30,000 |
| 051141-54244-7 | 2 in | 40+ | 50/200 | 25,000 |
| 051141-54245-4 | 3 in | 40+ | 50/200 | 20,000 |
| 051141-54246-1 | 4 in | 40+ | 25/100 | 12,000 |
| 051141-54251-5 | 1-1/2 in | 60+ | 50/200 | 30,000 |
| 051141-54252-2 | 2 in | 60+ | 50/200 | 25,000 |
| 051141-54253-9 | 3 in | 60+ | 50/200 | 20,000 |
| 051141-54254-6 | 4 in | 60+ | 25/100 | 12,000 |
| 051141-54259-1 | 1-1/2 in | 80+ | 50/200 | 30,000 |
| 051141-54260-7 | 2 in | 80+ | 50/200 | 25,000 |
| 051141-54261-4 | 3 in | 80+ | 50/200 | 20,000 |
| 051141-54262-1 | 4 in | 80+ | 25/100 | 12,000 |
| 051141-54267-6 | 1-1/2 in | 120+ | 50/200 | 30,000 |
| 051141-54268-3 | 2 in | 120+ | 50/200 | 25,000 |
| 051141-54269-0 | 3 in | 120+ | 50/200 | 20,000 |
| 051141-54270-6 | 4 in | 120+ | 25/100 | 12,000 |

| Accessories | | | |
|---|----------------|--------------------|--------------------|
| Needed Accessories | UPC | Recommended Tool 1 | Recommended Tool 2 |
| Roloc Disc Pad TSM, Hard, 1-1/2 in 1/4-20 Internal* | 051144-77728-0 | 051141-20231-0 | 051141-28341-8 |
| Roloc Disc Pad TSM, Hard, 2 in 1/4-20 Internal* | 051144-14212-5 | 051141-20231-0 | 051141-28341-8 |
| Roloc Disc Pad TSM, Hard, 3 in 1/4-20 Internal* | 051144-14216-3 | 051141-20231-0 | 051141-20232-7 |
| Roloc Disc Pad TSM, Hard, 4 in 5/8-11 Internal | 051141-28578-8 | 051141-28408-8 | |
| Roloc Disc Pad TSM, Hard, 1-1/2 in 1/4-20 Internal* | 051144-77728-0 | 051141-20231-0 | 051141-28341-8 |
| Roloc Disc Pad TSM, Hard, 2 in 1/4-20 Internal* | 051144-14212-5 | 051141-20231-0 | 051141-28341-8 |
| Roloc Disc Pad TSM, Hard, 3 in 1/4-20 Internal* | 051144-14216-3 | 051141-20231-0 | 051141-20232-7 |
| Roloc Disc Pad TSM, Hard, 4 in 5/8-11 Internal | 051141-28578-8 | 051141-28408-8 | |
| Roloc Disc Pad TSM, Hard, 1-1/2 in 1/4-20 Internal* | 051141-54259-1 | 051141-20231-0 | 051141-28341-8 |
| Roloc Disc Pad TSM, Hard, 2 in 1/4-20 Internal* | 051144-14212-5 | 051141-20231-0 | 051141-28341-8 |
| Roloc Disc Pad TSM, Hard, 3 in 1/4-20 Internal* | 051144-14216-3 | 051141-20231-0 | 051141-20232-7 |
| Roloc Disc Pad TSM, Hard, 4 in 5/8-11 Internal | 051141-28578-8 | 051141-28408-8 | |
| Roloc Disc Pad TSM, Medium, 1-1/2 in 1/4-20* | 051144-77729-7 | 051141-20231-0 | 051141-28341-8 |
| Roloc Disc Pad TSM, Medium, 2 in 1/4-20 Internal* | 051144-14211-8 | 051141-20231-0 | 051141-28341-8 |
| Roloc Disc Pad TSM, Medium, 3 in 1/4-20 Internal* | 051144-14215- | 051141-20231-0 | 051141-20232-7 |
| Roloc Disc Pad TSM, Hard, 4 in 5/8-11 Internal | 051141-28578-8 | 051141-28408-8 | |

*RoLoc shank, 1/4 in shank 1/4-20 external: 051144-45102-9

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Abrasive Systems Division
 3M Center
 Building 223-6S-03
 St. Paul, MN 55144-1000

1-866-279-1235
www.3M.com/Abrasives

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