



3M Science.
Applied to Life.™

3M™ Flap Discs 769F

The new standard of
value-priced performance.

3M Flap Disc 769F

- A competitively priced, high value flap disc perfectly positioned for the distribution/channel to sell without 3M support
- Formulated with a blend of crushed aluminum oxide (A/O), precision shaped grain (PSG)
- Polyester backing suitable for medium to heavy duty applications.
 - **Medium duty** = weld removal, scale and oxide removal, surface prep, metal dimensioning, blending, light cleaning.
 - **Heavy duty** = Beveling, edge deburring, aggressive weld removal



Advantages of Flap Discs

Finishing

- *Finer finishing than other grinding products*

Versatility

- *Grinding, beveling, blending, finishing, scale removal and corrosion.*

Friendly for the end user

- *Low training and skills are required, low capacity of producing damages in the surface of the piece.*

Skipping steps – Shorter process

- *Grinding and finishing and just one step*
- *Specially recommended for surface preparation previous to painting operations.*
- *Less generated heat and produced discoloration in Stainless Steel pieces.*

Diameters: 115mm, 125 mm, 180 mm

Grits: 40+, 60+, 80+, 120+



GRIND AT STEEPER ANGLES:
15° – 25°

Flap Discs vs other product formats



FLAP DISC

- Medium Cut Rate
- Finest Finish
- Most Forgiving
- Most Versatile



FIBRE DISC

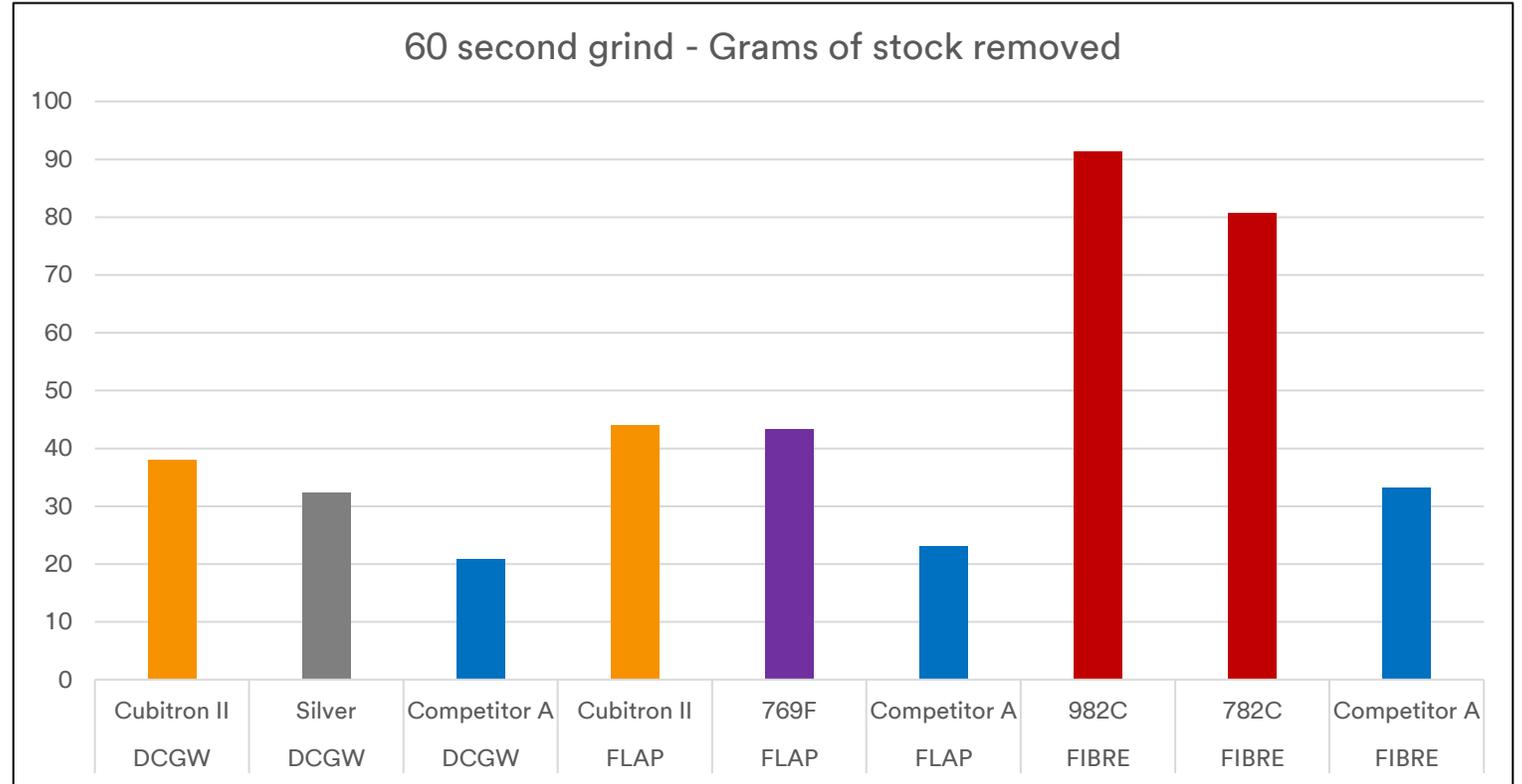
- Fastest Cut Rate
- Medium Finish
- Lowest Overall Cost



GRINDING WHEEL

- Medium Cut Rate
- Coarsest Finish
- Least Forgiving
- Toughest Product

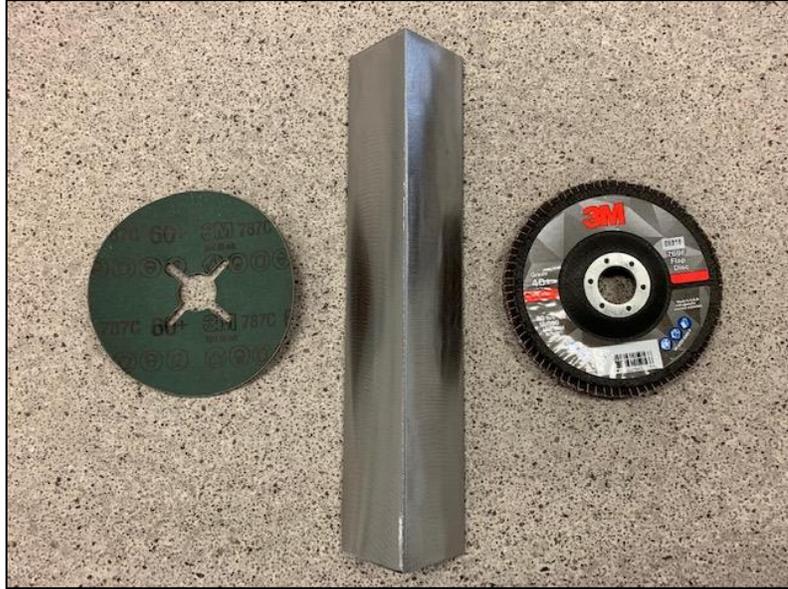
DCGW vs Flap vs Fibre – Test results



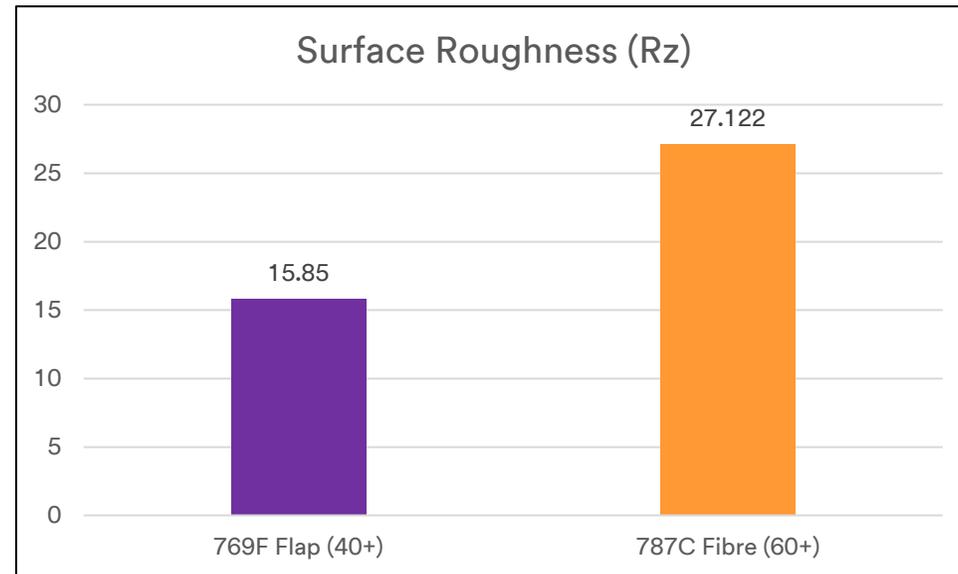
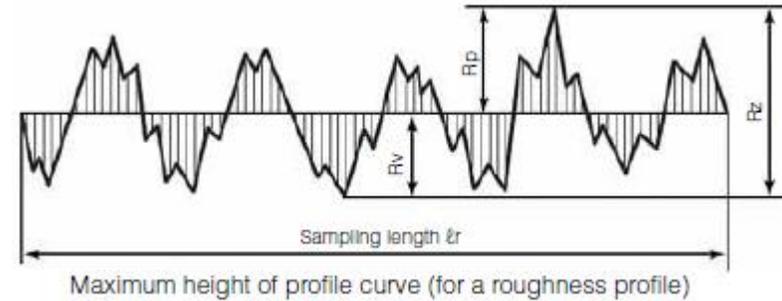
3M Flap Disc 769F

Outperforms DCGW & even some competitor fibre discs in stock removal

Surface Roughness, Flap vs Fibre – Test Results



Fine Finishing: 3M 769F Flap disc in 40+ will still finish 41% finer than a 60+ 787C Fibre disc!



3M Flap Disc 769F

Reduce process steps required to achieve a finer finish



Test Results

3M Flap Discs 769F 40+ / P40 – TEST RESULTS

Products Tested

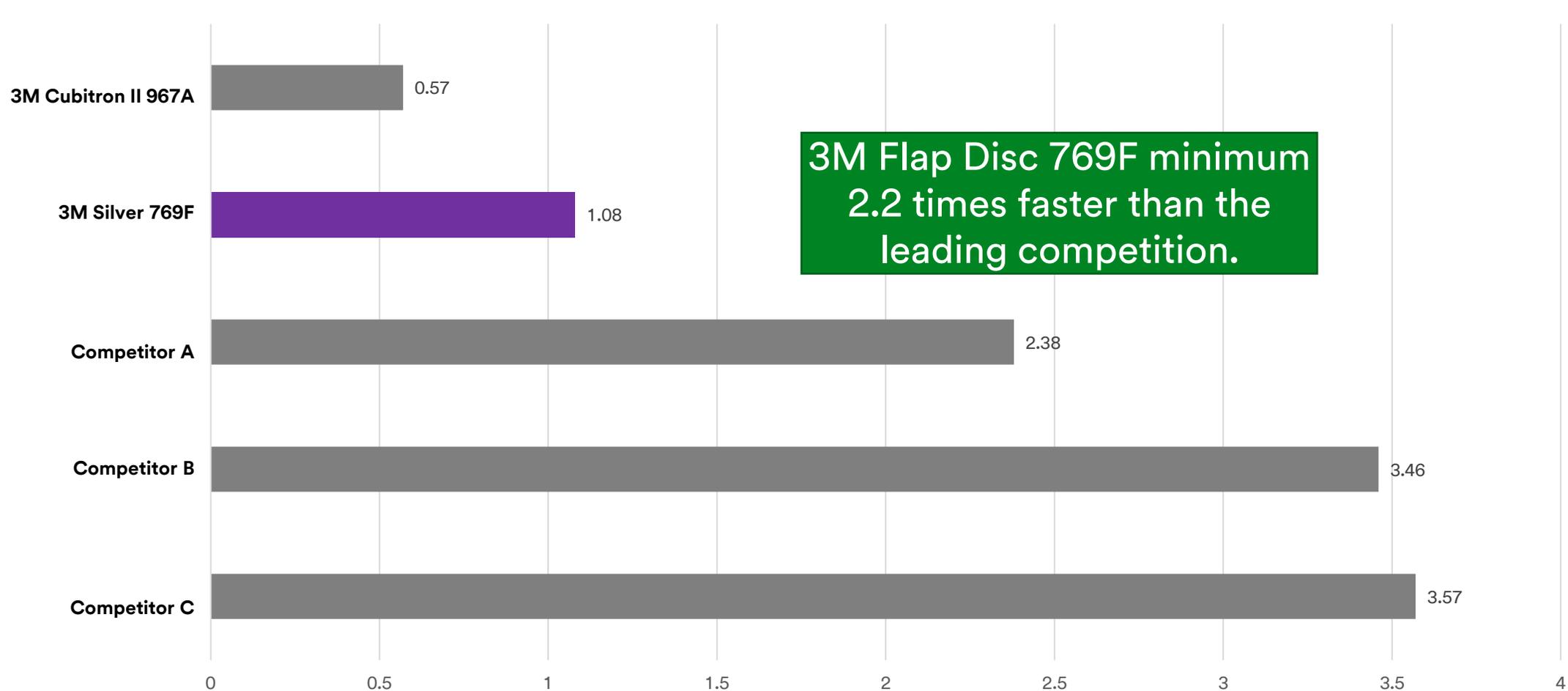
- 3M Silver 769F
- 3M Cubitron II 967A
- Competitor A
- Competitor B
- Competitor C

Tests Conducted

- 400mm MIG Weld Grind – Time taken
- 1 minute Mild Steel angle GRIND – Stock removed
- Grind mill scale on 150mm U Channel – Time taken



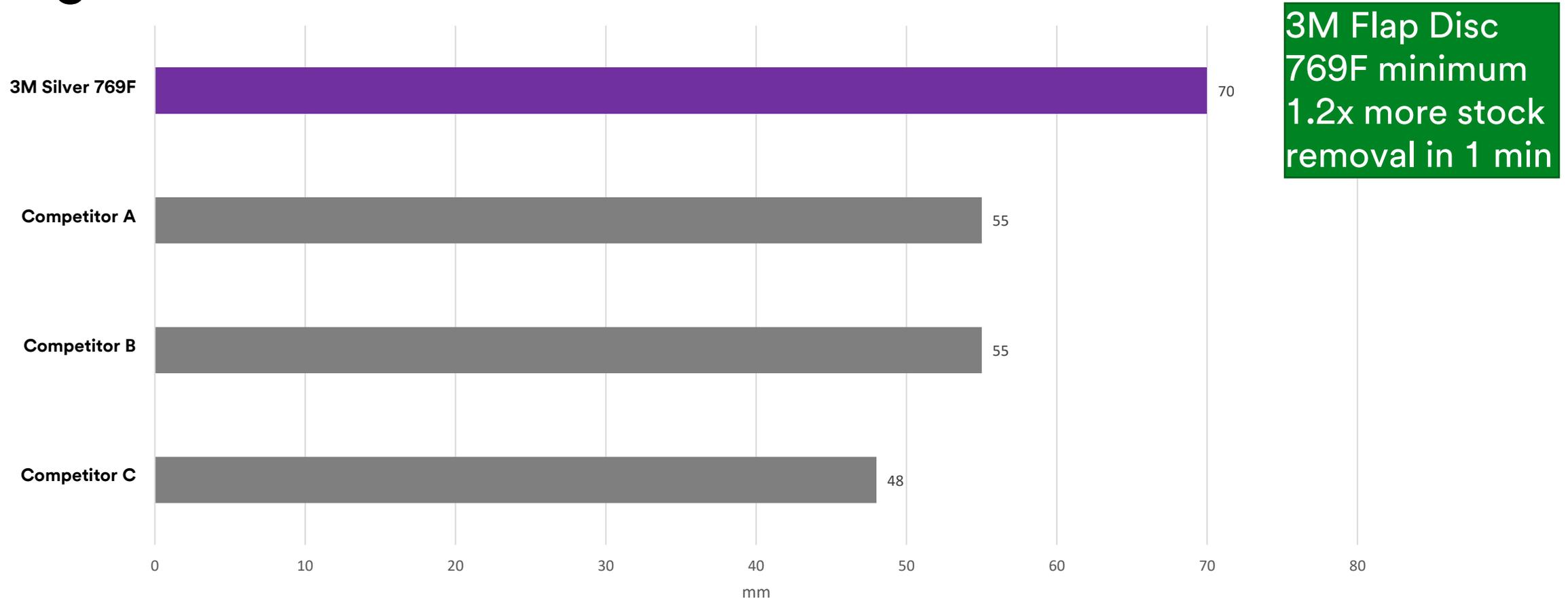
TEST 1: Weld Grind – time to remove 400mm MIG Weld



3M Flap Disc 769F

2.2x / 3.2x / 3.3x faster to remove 400mm weld than leading competitors

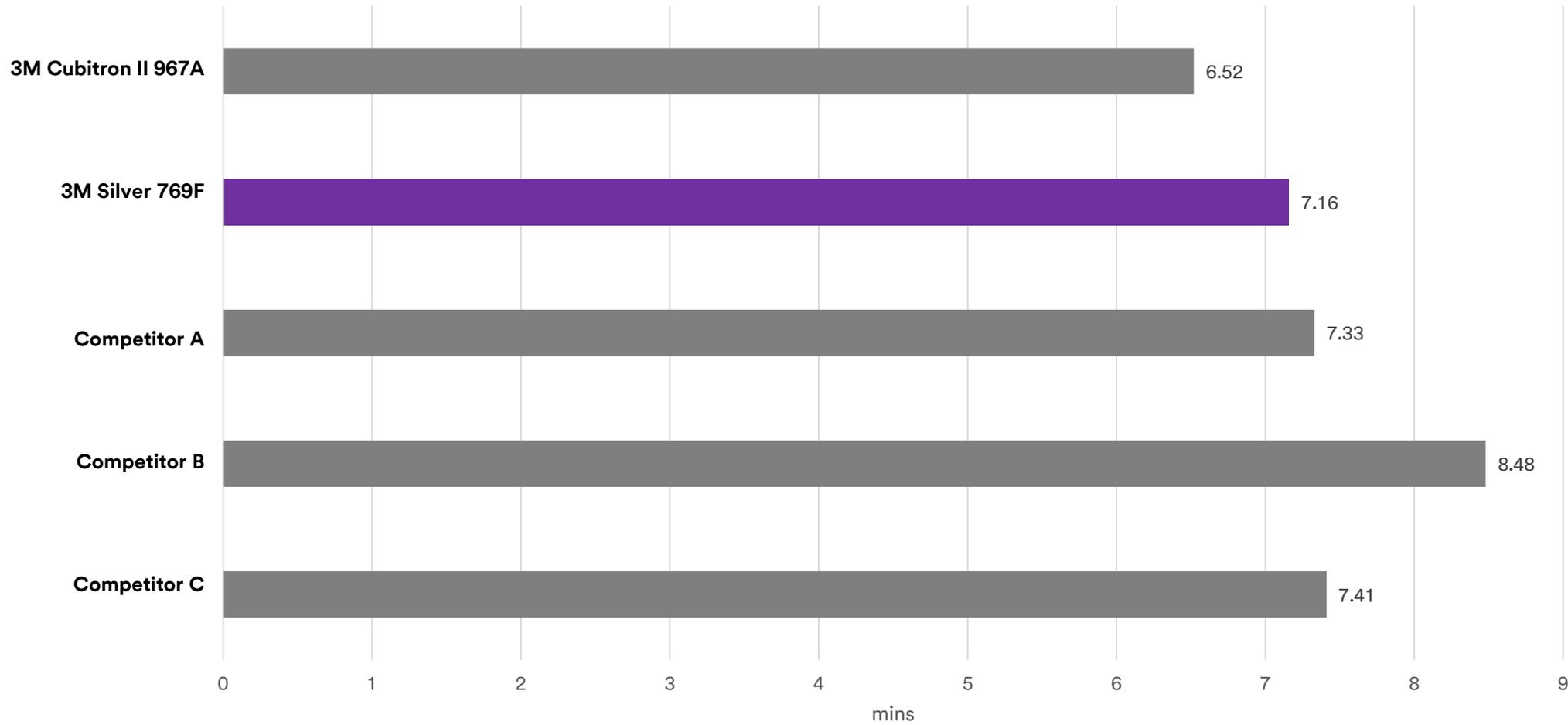
TEST 2: Stock Removal – 1 min Edge Grind on Mild Steel Angle



3M Flap Disc 769F

1.3x / 1.3x / 1.5x more stock removal in one minute than Leading competitors

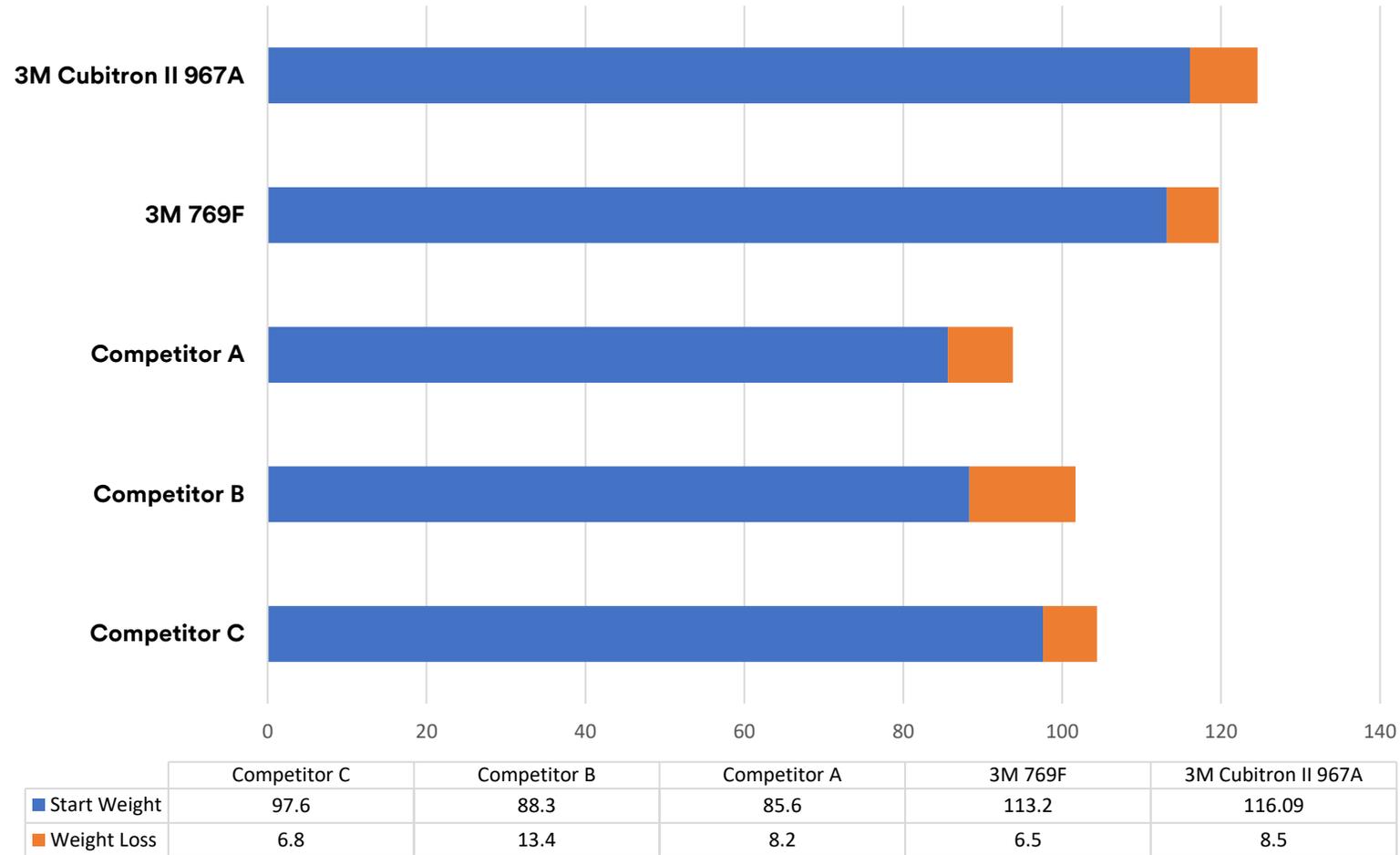
TEST 3: Flat Grind—time to grind mill scale on 150mm U Channel



3M Flap Disc 769F

1.1x / 1.3x / 1.1x Faster to flat grind mill scale than leading competitors

TEST 4: Disc Weight Loss (grams) – at completion of all 3 tests



3M Flap Disc 769F has a higher Start weight and a lower Weight Loss than the leading competitors

Thankyou.