

BUEHLER®

HERCULES™ FINE GRINDING DISC

- Improves Efficiency by Reducing Processing Steps
- Superb Sample Edge Retention and Flatness
- Nearly 30% Increase in Removal Rates Over Similar Products
- Long Life - Up to 200 Loaded Sample Holders
- Easy-to-Use and Remove
- Lasts Twice as Long as Similar Products
- Compatible with Buehler's APEX™ and MAGNOsys, Magnetic Systems or MET-GRIP® Liners
- Reduced Time to Change Discs
- Corrosion Resistant Design for Continued Performance

FINE
GRINDING DISC

HERCULES™

BUEHLER®



Ordering Information

Material	Diameter	Catalog Number
HERCULES H (for materials \geq HRC20 HV236)	8" (200mm)	41-2740-308-001
HERCULES H	10" (250mm)	41-2740-310-001
HERCULES H	12" (300mm)	41-2740-312-001
HERCULES S* (for materials $<$ HRC20 HV236)	8" (200mm)	41-2740-408-001
HERCULES S*	10" (250mm)	41-2740-410-001
HERCULES S*	12" (300mm)	41-2740-412-001

*available Winter 2000

HERCULES™ Fine Grinding Disc for Fast Grinding & Long Life

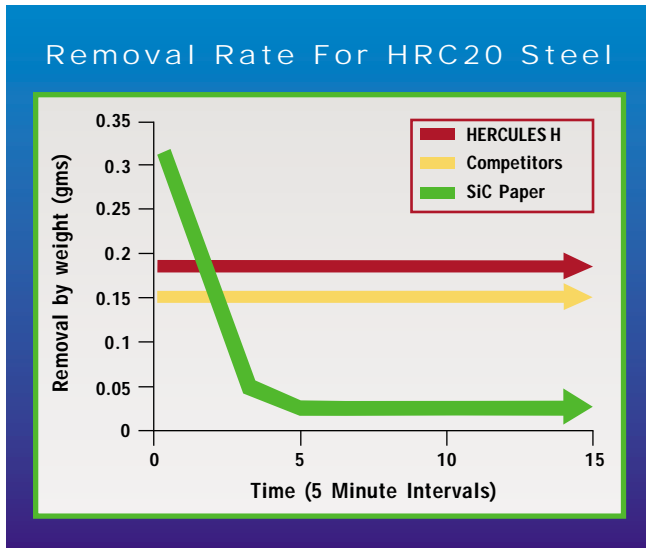


Figure 1. HERCULES H Fine Grinding Disc out performs both SiC paper and the competitors grinding disc with its high, constant material removal rate.

Procedures for Soft HRC20 (HV236) Steel Preparation

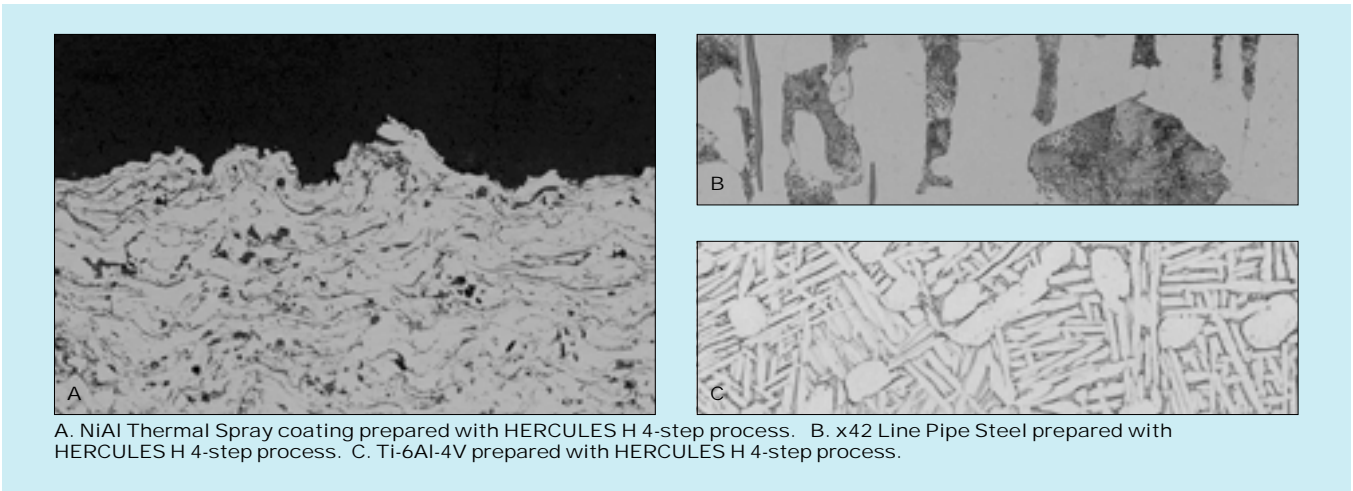
The steps below describe two different methods of specimen preparation. With the six step conventional method, one must change the platen, or its covering, six times. The SiC paper must be discarded at each step; the other cloths can be reused if stored and maintained properly. However, the HERCULES 4-step process involves only four platen changes. All cloths are reusable with proper storage and protection from contamination.

Conventional 6-Step Process

1. 240 (P280) SiC paper
2. 400 (P800) SiC paper
3. 600 (P1200) SiC paper
4. 6 micron METADI® SUPREME on TEXMET® 1000
5. 1 micron METADI SUPREME on Nylon
6. 0.05 micron MICROPOLISH® II MICROCLOTH®

HERCULES 4-Step Process

1. 240 (P280) SiC paper
2. HERCULES Fine Grinding Disc with 6 micron METADI® SUPREME
3. 3 micron METADI® SUPREME on TRIDENT™ Cloth
4. MASTERPREP™ 0.05 micron MICROPOLISH® II on MICROCLOTH®



A. NiAl Thermal Spray coating prepared with HERCULES H 4-step process. B. x42 Line Pipe Steel prepared with HERCULES H 4-step process. C. Ti-6Al-4V prepared with HERCULES H 4-step process.

Buehler continuously makes product improvements; therefore, technical specifications are subject to change without notice.

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BUEHLER ANALYST®
SECTION

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