

Fastick™ System with CAMEO® Grinding

LECO Corporation; Saint Joseph, Michigan USA

The new Fastick system provides a cost-effective alternative to magnetic disc systems for grinding and polishing your most challenging samples. The system's core is a PSA Base disc with pressure-sensitive adhesive on its underside and a glossy top surface designed to cling to a variety of surfaces.

Fastick polishing cloths feature a special backing that adheres readily and securely to the Base disc. While it can be difficult to remove magnetic discs, Fastick polishing cloths hold on tight yet are easily removed from the Base disc. With no magnet to attract metal debris to the polishing cloth, Fastick reduces the chances for contamination and simplifies cloth disposal. You may also use plain-back silicon-carbide grinding discs to eliminate the need for a retaining ring and the occasional disc slippage and wrinkling.

When used with CAMEO discs, the Fastick system would look something like this:



Grinding with CAMEO Discs and the Fastick System

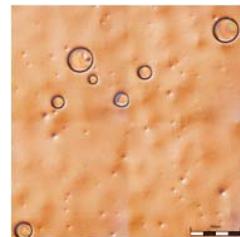
To use CAMEO discs in conjunction with Fastick polishing discs, a PSA-backed magnet is applied to the grinder/polisher wheel. During grinding and pre-polishing, the CAMEO discs are laid on the magnet, just as with "conventional" grinding/polishing.



CAMEO Disc Attached to PSA Magnet on Grinder/Polisher Wheel

Polishing with Fastick Cloths

In preparation for polishing using Fastick cloths, the PSA-backed Fastick Base disc is attached to the CAMEO FAS (Teflon) disc. A Fastick polishing cloth can then be laid on the glossy/clingy upper surface of the Base disc and light pressure applied to assure adhesion. After each polishing step, the Fastick cloth can be easily removed and any excess debris wiped away to prepare for the next step.



A typical CAMEO/Fastick grinding/polishing procedure for ferrous specimens can be found on page 2.

Application of Fastick Polishing Cloths

- Base – PSA base for Fastick system.
- MIX (Pan W type) – 3 micron intermediate polishing step applications.
- RED (Red Felt type) – 1 micron final polishing step or multi-purpose applications.
- OPTO (Imperial type) – 0.05 micron final polishing step applications.
- FLAT (Yellow CAMEO type) 9 micron coarse polishing step applications.
- STEP (Struers Mol type) - 6 micron intermediate polishing step applications.

Fastick™ Carbon Steels and Cast Irons Method

[•] Fixed Holder [] Single Sample

Grinding GPX200	Time (Minutes: Seconds)	Head Direction	Head Pressure (Pounds)	Head Speed (RPM)	Wheel Direction	Wheel Speed (FPM)
CAMEO® Platinum 1/Water	2:00	CW	35	100	CCW	300
CAMEO Silver/ 6 µm CAMEO Suspension	2:00	CW	35	100	CCW	200

Polishing	Time (Minutes: Seconds)	Head Direction	Head Pressure (Pounds)	Head Speed (RPM)	Wheel Direction	Wheel Speed (FPM)
Base Disc 8" 812-555-101 10" 812-555-107 12" 812-555-113						
3 µm Diamond Polish Step Cloth 8" 812-555-104 10" 812-555-110 12" 812-555-116	3:00	CW	35	100	CCW	200
1 µm Diamond Polish Red Cloth 8" 812-555-105 10" 812-555-111 12" 812-555-117	1:00	CW	35	100	CCW	200
0.05 µm Colloidal Silica Polish Opto Cloth 8" 812-555-106 10" 812-555-112 12" 812-555-118	1:30	CW	30	75	CCW	150

Specifications and part numbers may change.

Consult LECO for latest information.

Patent pending; Fastick™ is a trademark of G&G Surface Technology.

CAMEO is a registered trademark of LAM-PLAN.

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