

Crack Checking Solutions

Welding Crack Check Non-Destructive Testing

Crack Check Red Dye Penetrant Inspection Method The Visible Penetrant Inspection method is a nondestructive method of locating microscopic flaws such as crack, pores, pin holes and laps which are open to the surface of welds, castings, exotic alloys and standard materials. Visible Penetrant inspection is one of the most common of modern non-destructive testing methods. It has achieved prominence because of the extreme simplicity of the process, which when coupled with its high degree of accuracy and low cost, makes it a favorite of many quality engineers.



The CNF Cleaner which is used to clean the test surface to insure accuracy in the test procedure. The CNF Cleaner will remove any dirt, grease, oils and foreign material from the surface. The CNF can be sprayed directly on the surface followed by wiping of the surface with a clean cloth.

Part No.	Vendor No.	Container Size	Style	Price
0815500	CNF315-16	15.1 oz	Cleaners	---

Welding Crack Check Penetrant

The PHF Penetrant which is sprayed or applied to the surface to be tested. After the PHF Penetrant is applied to the test surface, sufficient time should be allowed for penetration of surface discontinuities (average penetration time: 10 minutes). After adequate penetration time the PHF Penetrant is removed from the surface. The most common method of removal is to clean the test area with a cloth moistened with the CNF Cleaner followed by wiping the surface with a clean dry cloth.

Part No.	Vendor No.	Container Size	Style	Price
0815503	PHF315-16	9.4 oz	Penetrators - Nuclear	---

Welding Crack Check Developer

The DNF Developer which is sprayed or applied to the surface to draw out the PHF Penetrant retained in voids and to expand this retained Penetrant into visible flaw indications. The white absorbent particles absorb and pull penetrant from voids with a blotter action and serve as a contrasting white background for the PHF Penetrant (red dye) which will portray any defects, i.e. cracks, porosity or pinholes. It can then be cleaned with the CNF Cleaner to remove the DNF Developer background.

Part No.	Vendor No.	Container Size	Style	Price
0815506	DNF315-16	14.2 oz	Developers	---

Startup Kit

Kit includes one can each of Penetrant and Developer, 2 cans of Cleaner, instructions and handy carrying/storage box.



Part No.	Vendor No.	Container Size	Style	Price
0815509	D315-KIT-S		Kits	---

Fluxes



LENOX® Sterling Water Soluble Flux

- NSF 61 certified safe for potable water applications
- Water-Soluble Lead-Free Flux
- Meets ASTM B-813
- Excellent performance with any lead-free Solder
- Unit lot numbering ensures complete traceability



Part No.	Vendor No.	Container Size	Style	Price
0803405	WS78092	8 oz	Lead-Free Water Soluble	---
0803406	WS78091	1.7 oz	Lead-Free Water Soluble	---
0803515	WS78093	16 oz	Lead-Free Water Soluble	---

LENOX® Lead-Free Paste Flux

- CRITICAL FOR PROPER SOLDERING AND SELECTED BRAZING ACTIVITIES REMOVES OXIDES AND IMPURITIES
- NSF 61 certified safe for potable water applications
- Petroleum based lead-free flux
- Check local plumbing codes for usage and restrictions
- Unit lot numbering ensures complete traceability



Part No.	Vendor No.	Container Size	Style	Price
0803407	WS78130	8 oz	Paste - Petroleum Based	---
0803408	WS78090	2 oz	Paste - Petroleum Based	---

LENOX® Stainless Steel Liquid Flux

- CRITICAL FOR PROPER SOLDERING AND SELECTED BRAZING ACTIVITIES REMOVES OXIDES AND IMPURITIES
- Formulated for soldering stainless steel and high-chrome alloys
- Added bi-fluoride element increases etching ability
- Excellent across a broad range of base metals, solders, and temperatures
- Aggressively removes oxide coatings and other impurities Provides excellent capillary actions



Part No.	Vendor No.	Container Size	Style	Price
0803409	WS78208	4 oz	Liquid - High Activity	---

LENOX® General Purpose Liquid Flux

- CRITICAL FOR PROPER SOLDERING AND SELECTED BRAZING ACTIVITIES REMOVES OXIDES AND IMPURITIES
- Formulated for soldering stainless steel, monel, high-chrome alloys, inconel, nickel, copper, brass, ferrous alloys, and many other metals
- Excellent across a broad range of base metals, solders, and temperatures
- Aggressively removes oxide coatings and other impurities
- Use for soft soldering



Part No.	Vendor No.	Container Size	Style	Price
0803410	WS78209	4 oz	Liquid - Soft Soldering	---

LENOX® Tinning Paste Flux

- Petroleum Lead-Free Pre-Tinning Flux
- NSF 61 certified safe for potable water applications
- Petroleum based lead-free flux with metals for pre-tinning copper
- Check local plumbing codes for usage and restrictions
- Unit lot numbering ensures complete traceability



Part No.	Vendor No.	Container Size	Style	Price
0803516	WS78096	1.7 oz	Tinning - Petroleum Based Lead-Free	---

LENOX® Lead-Free Paste Flux

- NSF 61 certified safe for potable water applications
- Petroleum based lead-free flux
- Check local plumbing codes for usage and restrictions
- Unit lot numbering ensures complete traceability



Part No.	Vendor No.	Container Size	Style	Price
0803517	WS80143	16 oz	Paste - Petroleum Based	---

LENOX® Silver Brazing Flux

- General purpose brazing paste flux
- Brazes copper, brass, nickel, carbon steel, stainless steel, and precious metals
- Residues are water soluble
- Brush cap dispenser included
- Appropriate flux metals: BA9, BCuP
- AWS A5.31-91, Type FB3A



Part No.	Vendor No.	Container Size	Style	Price
0803518	WS78172	6 oz	Brazing - Water Soluble	---

For additional products, visit fastenal.com or contact your local store.

Welding