

# PICKLING

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## WHAT IS IT?

- HYDROCHLORIC ACID BATH FOR FERROUS METALS
- CONCENTRATIONS RANGING FROM 2% TO 10%
- TEMPERATURES RANGING BETWEEN 180 – 200 DEGREES F

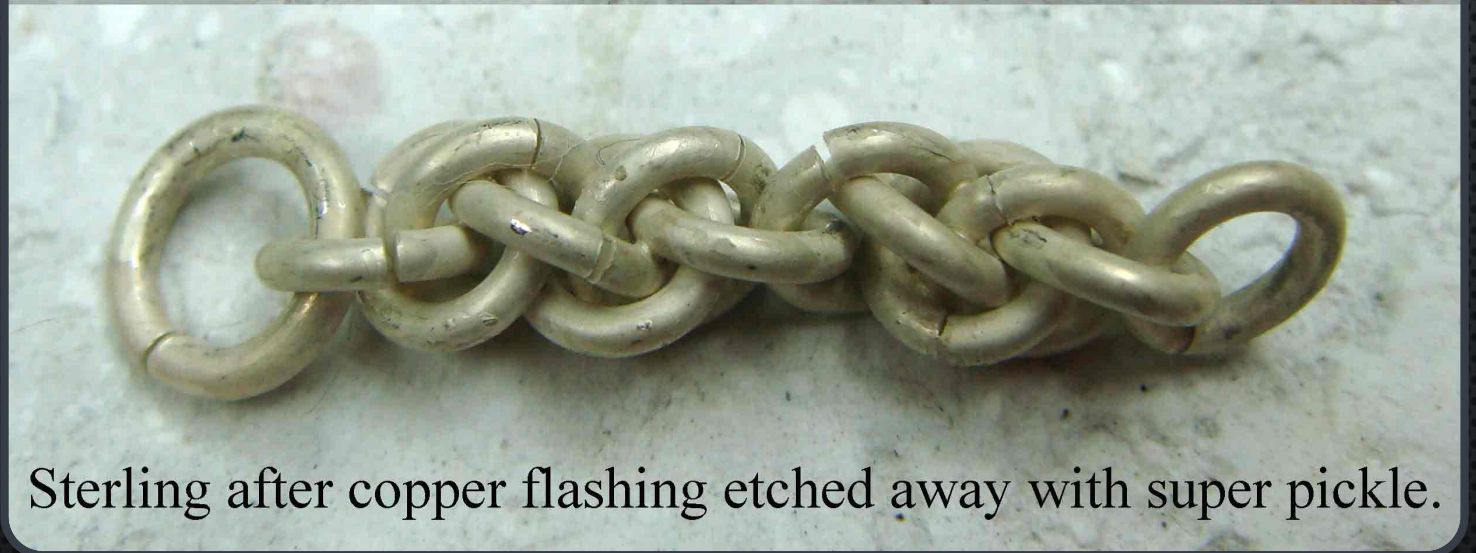


## METHODS

- TANK IMMERSION
- SPRAY
- CIRCULATION
- BRUSH ON PASTE
- ELECTROCHEMICAL CLEANING



Original sterling silver.



Sterling after copper flashing etched away with super pickle.

here <https://shoeboxstudio.com/2014/03/17/gah-pickle-turned-my-silver-and-brass-pink/>



## WHY IS IT USED?

- TO REMOVE SCALE THE OUTER LAYER
- PREVENT FROM FUTURE EROSION DUE TO OXIDIZATION



## WHERE IT'S USED?

- METAL FABRICATORS USE IT
- THE HIGH TEMPERATURE OF METAL WORKING CAUSES THE OUTER SCALE LAYER



# SOURCES

- [HTTPS://WWW.CALIFORNIASTEEL.COM/PDF/DESC-PICKLING.PDF](https://www.californiasteel.com/pdf/DESC-PICKLING.PDF)
- [HTTP://WWW.WORLDSTAINLESS.ORG/FILES/ISSF/NON-IMAGE-FILES/PDF/EURO\\_INOX/PASSIVATING\\_PICKLING\\_EN.PDF](http://www.worldstainless.org/files/issf/non-image-files/pdf/euro_inox/passivating_pickling_en.pdf)
- [HTTPS://WWW.NZSTEEL.CO.NZ/NEW-ZEALAND-STEEL/THE-STORY-OF-STEEL/THE-SCIENCE-OF-STEEL/THE-ART-OF-PICKLING/](https://www.nzsteel.co.nz/new-zealand-steel/the-story-of-steel/the-science-of-steel/the-art-of-pickling/)