



Product Bulletin

Product Name: ENE Brown Dip
Product Code: 2300020
Revision Date: July 7, 2025

ENE Brown Dip

ENE Brown is a liquid, room temperature antiquing formulation for copper, brass, bronze, and munz metal. It produces mainly light to darker browns. Black can be produced with long dwell times.

Features & Benefits

US 10 B finish	Matching of hardware finishes
Uniform deposition coating	Easily relieved to get varying levels of worn antique appearance
ROHS and REACH compliant	Product good for use in Europe

Physical Data

Specific gravity	1.05
Vapor pressure	< water
Percentage of volatility by volume	None
Vapor density (air=1)	Same as water
Evaporation rate (ether=1)	Same as water
Solubility in water	Compete
Percentage of volatility by volume	Yellow solution, slight ammonia odor



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Operating Conditions

Concentration	1 part ENE Brown Dip:3 – 6 parts water
Temperature	75°F – 90°F
Immersion time	30 sec – 3 min Depending on concentration and tone desired
Equipment	Plastic or fiberglass tanks
Control	Dip may be controlled by small additions (1 – 2 fluid oz/Gal) of concentrated ENE Brown Dip. When the time interval to produce the desired tone becomes inordinately long and further additions of ENE Brown Dip do not increase rate of color production, the bath is spent and should be replaced.

Caution

ENE Brown Dip fumes are toxic. Use only with proper exhaust ventilation. If taken internally, ENE Brown Dip is poisonous (contains Selenium salts). Avoid contact with skin and eyes. Use protective clothing (rubber gloves) when handling this material. In case of contact with skin, affected area should be thoroughly flushed with water; for eyes, flush with water for at least 15 minutes and obtain medical attention. Avoid contact of ENE Brown Dip with concentrated acids or oxidizing materials.

Waste Disposal

ENE Brown Dip solutions contain soluble Selenium compounds and may contain heavy metals generated during processing (copper, zinc, etc.) The Selenium compounds may be reduced to elemental Selenium. Our Aquapure specialists will be able to assist in this area.

WARRANTY: HUBBARD-HALL INC. IS NOT RESPONSIBLE FOR THE MISUSE, MISAPPLICATION, OR MISHANDLING OF THIS PRODUCT. SEE THE TERMS AND CONDITIONS OF SALE ON OUR WEBSITE FOR ADDITIONAL TERMS AND CONDITIONS CONCERNING OUR PRODUCTS, INCLUDING BUT NOT LIMITED TO, LIMITATIONS AND DISCLAIMERS OF WARRANTIES AND LIABILITIES.



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Our People. Your Problem Solvers.

For more information on this process,
please call us at 203.756.5521 or email: techservice@hubbardhall.com

Hubbard-Hall holds certifications for **ISO 9001:2015**, Responsible Distribution, as accredited by the **ACD** (Alliance for Chemical Distributors) and as a **Women-Owned Small Business**, as well as maintaining an association with **Omni-Chem**¹³⁶.