

How to

OBTAIN SUPERIOR HEAT TREAT STOP OFF

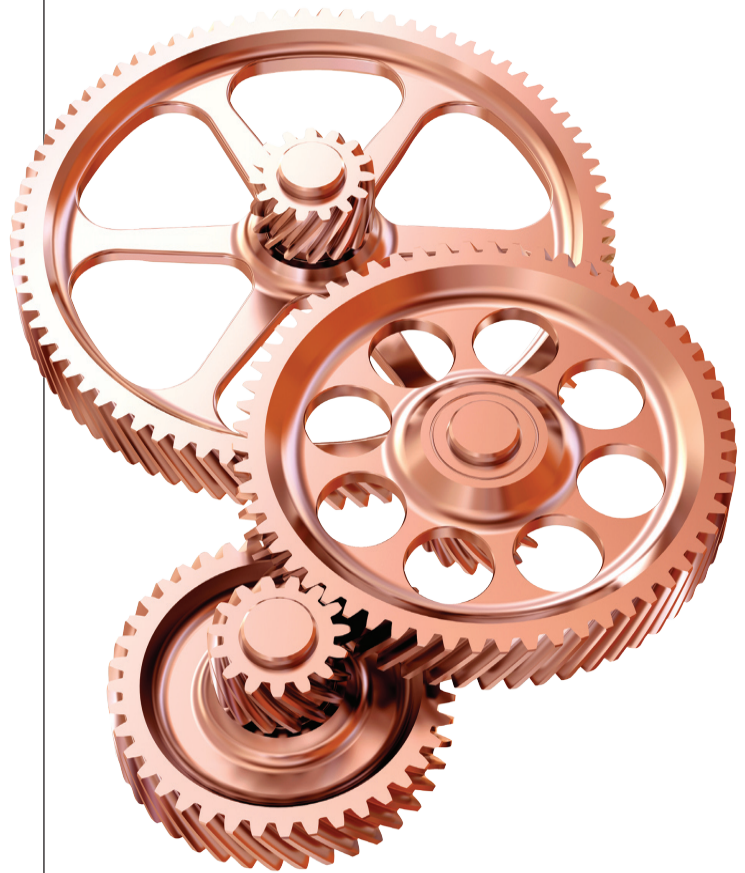
E-Brite 30/30 offers a non-cyanide
copper plating solution with *proven* results

EPI's E-Brite 30/30 produces a fine grained, smooth, dense and ductile copper deposit which is non-porous and delivers excellent bonding properties. It offers excellent throwing and covering power—especially in low current areas—and is superior to cyanide copper in these properties.

E-Brite 30/30 is supplied as a liquid concentrate which is diluted with water. Ease of handling is yet another defining factor in selecting E-Brite 30/30. The product generates absolutely no carbonates with only two liquid maintenance additives required versus as many as five with other processes.

Wide operating window, superior performance, optimal adhesion, and substantial money savings are just four of the many advantages in selecting E-Brite 30/30 for your process finishing.

Send us your sample parts today and see for yourself.
Contact EPI at **262.786.9330**
or e-mail **us-sales@epi.com**



**SUPERIOR AS A HEAT TREAT STOP OFF PLATE
MEETS BOEING COMMERCIAL, SPACE, AND
DEFENSE SPEC 5722**

EASY TO USE

ONE TANK PROCESS

ELIMINATES CYANIDE

NO DHS REPORTING REQUIRED

EPI Electrochemical
Products Inc.
Simply Superior!

Learn More

>> See reverse for
Bath Make-Up
Operating Conditions
and Applications

E-Brite 30/30

A cost-effective, quality-based product that adheres to steel, copper, brass, stainless steel, zincated aluminum, and electroless nickel.

- Cyanide-free formula eliminates Homeland Security reporting
- Produces smooth, finer and denser grain than cyanide copper
- Less copper plate required than cyanide copper with the same results
- No need to dilute the bath for carbonates!
- No chelating agents
- Stable bath production—Baths running over 15 years
- Plate 0.001” of copper at 20 AMPS PSF in 60 minutes
- Low copper metal (0.8-1.8 oz/gallon)
- Meets MIL-C-14550 B and AMS 2418F requirements
- Substantial savings in waste treatment costs and insurance

Additional Features:

- **Economical** – Requires only one tank for both strike and plate.
- **Versatile** – Used as a preplate copper strike for bright nickel, acid copper, tin and solder plate. Excellent as a heat treat stop off plate. Works well in both rack and barrel lines.
- **Simple to Use** – No special anodes or continuous dummy plating as with other processes. Only two liquid maintenance addition agents versus as many as five agents with other processes.
- **Safe** – Poses no health hazards due to accidental drag-in into acid copper solutions.
- **Reliable** – Excellent bath stability and is extremely simple to control. Does not contain strong chelators. Plates out of the copper anodes rather than out of the solution.
- **Performance-Proven** – Has continually helped hundreds of users achieve better plating while eliminating cyanide.

OPERATING CONDITIONS

	RACK PLATING		BARREL PLATING	
	OPTIMUM	RANGE	OPTIMUM	RANGE
pH	9.8	9.2-10.0	9.8	9.5-10
Temperature	130°F	100-140°F	120°F	100-140°F
Cathode-Current Density	15 ASF	5-30 ASF	5-8 ASF	2-10 ASF
Voltage		1-6 Volts		15-18 Volts
Anode-Current Density	Minimum of 10 ASF in order to corrode the anodes and maintain the copper concentration of the bath.			
Agitation	Vigorous air mandatory for rack lines and also helpful in barrel lines. Use low pressure, large volume blowers only—not compressed air. In-tank filter systems do not produce sufficient solution agitation to be used with E-Brite 30/30 and must not be used for agitation or filtration. Air agitation aids in producing a brighter finish and helps to avoid burning in the high current density areas.			

BATH MAKE-UP

CONCENTRATION	RACK PLATING		BARREL PLATING	
	OPTIMUM NEW BATH MAKE-UP	RANGE	OPTIMUM	RANGE
E-Brite 30/30	40% by Volume	35-60% by Volume	40% by Volume	30-60% by Volume
E-Brite 30/31	10% by Volume		10% by Volume	
E-Brite 30/32	4% by Volume	2-6% by Volume		
E-Brite 30/35	8% by Volume	5-10%	8% by Volume	5-10% by Volume
Copper Metal	1.0 oz/gal	0.8-1.8 oz/gal	1.0 oz/gal	0.8-1.8 oz/gal

Call or e-mail for more info:
262-786-9330
 us-sales@epi.com



17000 W. Lincoln Ave.
 New Berlin, WI 53151 USA
 epi.com • Fax: (262) 786-9403

CAUTION: The E-Brite 30/30, 30/31, 30/32 and 30/35 concentrates are mild skin irritants. **DO NOT** work with these products without first reading and understanding the **Material Safety Data Sheet** furnished by EPI.

IMPORTANT NOTICE! For Industrial Use Only

The following is made in lieu of all warranties, expressed or implied, including the implied warranties of merchantability and fitness for purpose: seller's and manufacturer's only obligation shall be to replace such quantity of the product as proved to be defective. Before using, user shall determine the suitability of the product for its intended use, and user assumes all risk and liability whatsoever in connection therewith. **Neither seller nor manufacturer shall be liable either in tort or in contract for any loss or damage, direct, incidental or consequential arising out of the use or the inability to use the product.**