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**SPECIFICATION FOR  
LEADED ENGRAVABLE BRASS WITH CLEAR BAKEKOTE  
AND OPTIONAL BLACK TOP COAT**

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**BASE METAL:**

Alloy C35300 Leaded brass:

ASTM B 121/B 121M: Standard Specification for Leaded Brass Plate, Sheet, Strip, and Rolled Bar.

**BRASS COMPOSITION:**

Metal: Copper: 60.0-63.0 %, lead: 1.5-2.5%, iron: 0.10% max, zinc: remainder.

Thickness: Per customer requirement. Minimum processing thickness is 0.0080" (0.20 mm).

Temper: Per customer requirement. Available tempers are designated as H01 through H10 which correspond to the former quarter-hard through extra-spring designations. Annealed tempers are designated as OS070, OS050, OS035, and OS025 which are based on grain size.

Rockwell:	TEMPER	FORMER DESIGNATION	30T RANGE
	OS070	Annealed	12 – 37
	OS050	Annealed	20 – 35
	OS035	Annealed	25 – 38
	OS025	Annealed	27 – 42
	H01	Quarter-hard	43 – 60
	H02	Half-hard	54 – 66
	H04	Hard	68 – 73
	H06	Extra-hard	73 – 76
	H08	Spring	75 – 78
	H10	Extra-spring	76 – 79

Finish: Bright Polished or Satin Finished.\*

**CLEAR COATING (BAKEKOTE):**

- Composition: Cured epoxy 3H to 5H pencil hardness (ASTM D 3363) and 50 double MEK rubs.
- Bend Test: Typically 1-T bend per ASTM D 3794, Section 9.5.5.
- Weathering: For interior exposures only.
- Thickness: Typical range 0.18 mils (4.5 microns) to 0.30 mils (8.0 microns) measured per ASTM D 1400.

**BLACK ENGRAVABLE COATING OVER BAKEKOTE: (OPTIONAL)**

- Composition: Cured epoxy H to 2H pencil hardness (ASTM D 3363) and 25 double MEK rubs.
- Bend Test: Typically 1-T bend per ASTM D 3794, Section 9.5.5.
- Weathering: For interior exposures only.
- Thickness: Typical range 0.10 mils (2.5 microns) to 0.20 mils (5.1 microns) measured per ASTM D 1400.
- Engraving: Scratch, rotary, or laser.

**PROTECTIVE FILMS AND PAPERS:**

Available with wide variety of strippable protective films and paper.

\* Based on the application and customer specifications.