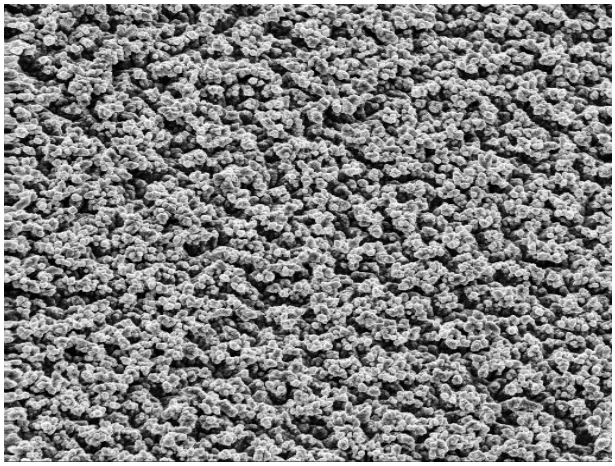
OAK-MITSUI
MITSUI KINZOKU CORPORATE GROUP

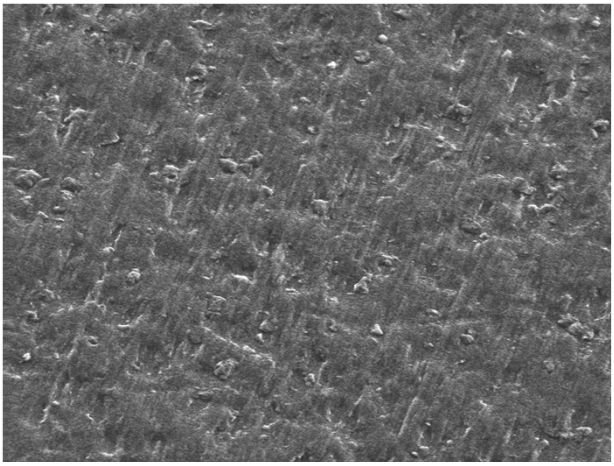
Performance Copper Foils

TOB-III

TOBIII is a grade 3 (HTE) copper foil with a TOB treatment designed for multilayer constructions and is fully compatible with all epoxy resin systems.



Treated (Matte) Side TOBIII (1/2 Ounce)



Drum Side TOBIII (1/2 Ounce)

Nominal Thickness		microns	12	18	35	70
Area Weight		oz/ft²	3/8	1/2	1	2
Tensile	Ambient	Kpsi	60	60	55	52.5
	180° C	Kpsi	30	30	30	30
Elongation	Ambient	%E	6	8	15	20
	180° C	%E	8	8	8	8
Roughness - Ra	Drum Side	µinch	10	10	10	10
Roughness - Rz	Matte Side	µinch	200	200	250	400
Peel Strength B Condition Epoxy, Tg 170°C	Matte Side	Lbs/in	7.0	7.5	10.5	15.0

Performance Benefits

- Zinc barrier layer promotes long term bond strength and resists pink ring.
- HTE characteristics eliminate inner layer foil cracking.
- Provides consistency in etching and drilling.

*Note: Nominal thickness is determined by area weight. Actual measured thickness may be slightly higher due to matte side topography.

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