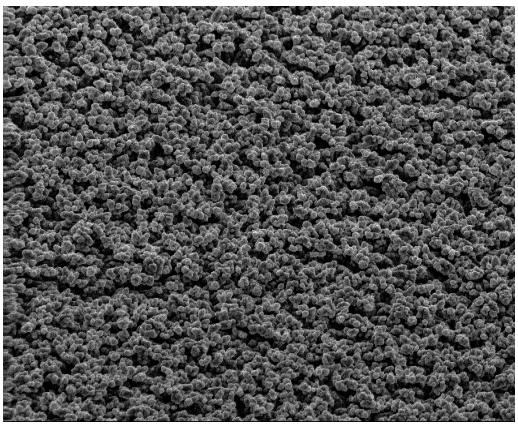
OAK-MITSUI
MITSUI KINZOKU CORPORATE GROUP

Performance Copper Foils

MLS-MHT

MLS-MHT is a reverse treated foil designed for high Tg resin systems such as Polyimide, BT, CE, Hydrocarbon-ceramic and Fluorocarbon substrates. This product is typically used for inner layer applications where controlled impedance and high density fine lines are required.

Treated (Drum) Side MLS-MHT



Untreated (Matte) Side MLS-MHT

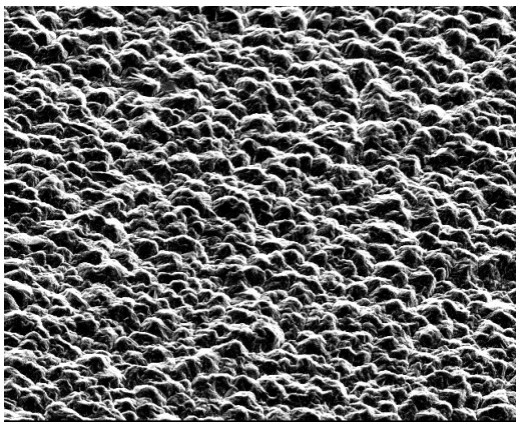


Table of Typical Foil Properties

Nominal Thickness **Area Weight**		**microns** **oz/ft²**	**18** **0.5**	**35** **1**	**70** **2**
Tensile Strength	**Ambient** **180°**	Kpsi Kpsi	60 30	55 30	52.5 30
Elongation	**Ambient** **180°**	%E %E	8 8	15 8	20 8
Roughness	**Untreated** **(matte side)** **Treated** **(drum side)**	Rz / µinch Rz / µinch	175 160	225 160	350 160
B Condition Peel **Polyimide**	**Treated** **(drum side)**	Lbs/in	5.5	6.5	7.0

Performance Benefits

- Very Low Profile Bonding Surface.
- Excellent Etch Factor for fine lines
- HTE characteristics eliminate inner layer foil cracking.
- Increased treatment surface area for improved / enhanced peels on Polyimide and other high Tg substrates
- Untreated (matte) side passivation has excellent anti tarnish resistance at higher processing temperatures

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