



**IPC-4562A-WAM1
with Amendment 1**

Metal Foil for Printed Board Applications

Developed by the Metallic Foil Task Group (3-12a) of the Printed Board Base Materials Committee (3-10) of IPC

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Users of this publication are encouraged to participate in the development of future revisions.

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IPC

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Metal Foil for Printed Board Applications

1 SCOPE

This specification covers metal foils supported by carrier films and unsupported foils suitable for subsequent use in printed boards. Unless otherwise agreed upon between user and supplier (AABUS), metal foils **shall** be considered acceptable, so long as the requirements in this specification are met.

1.1 Purpose This specification addresses the requirements for procurement of metal foils used only in printed wiring applications.

1.2 Foil Designation The foil designation **shall** be in the following forms:

IPC-4562/X	CU	E	3
Where X is the specification sheet number (See 1.2.1)	Foil Metal (See 1.2.2)	Foil Type (See 1.2.3)	Foil Grade (See 1.2.4)
2	S	XS	3
Foil Thickness (See 1.2.5)	Bond Enhancement Treatment (See 1.2.6)	Foil Profile (See 1.2.7)	Quality Classification (See 1.3)

1.2.1 Specification Sheet Description At the end of this document is a series of specification sheets. Each sheet outlines engineering and performance data for a metal foil. The sheets are provided with a number for ordering purposes. For example, if a user wishes to order from specification sheet 1, the number "1" would be substituted for the "X" in the above designation example (e.g., IPC-4562/1).

The metal foils contained in this standard represent known materials. As new foils become available, they will be added to future revisions. Users and material developers are encouraged to supply information on new materials for review by the Metallic Foils Task Group (3-12a). Users who wish to invoke this specification for metal foils not listed **shall** list a 0 (zero) for the specification sheet number (e.g., IPC-4562/0).

This specification provides quality classes (see 1.2.3 through 1.2.7) for requirements to reflect functional performance (see Appendix A) and testing properties. The reference of a single class does not preclude invoking specific requirements defined in other classes.

1.2.2 Foil Metal The metal foil **shall** be designated by a suitable two- or three-letter code:

- CU – Copper
- NI – Nickel
- XX – Other

1.2.3 Foil Type Metal foil types **shall** be distinguished by their process of manufacture and **shall** be designated as:

- E – Electrodeposited
- W – Wrought (rolled)
- O – Other