IPC-1754 Aerospace Material & Substance Declarations Explained

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Verification & Authority Baseline: Published by IPC (Global Electronics Association) and adopted by IAEG as the aerospace data-exchange standard for chemical/material declarations (Class E, F, G). Voluntary industry standard; contractually binding when invoked by Boeing or Tier-1 OEMs.



IPC-1754 Class	Disclosure Depth	Typical Trigger
Class E	High-level compliance queries (True/False/Unknown)	Initial RoHS / REACH screening
Class F	Specific declarable substances & mass % (AD-DSL)	IAEG member OEM chemical rollups
Class G	Full Material Disclosure (FMD) to homogeneous level	Long-lifecycle flight hardware / obsolescence

Who Issues This Ask, Authority, and Binding Status

IPC-1754 requests come from major aerospace and defense OEMs—including The Boeing Company and International Aerospace Environmental Group (IAEG) members—seeking standardized chemical composition data for delivered parts and assemblies.

IPC-1754 is a **voluntary industry data-exchange standard** published by IPC (Global Electronics Association) in coordination with IAEG; it is not a statute. It becomes **contractually binding** when a prime's engineering drawing, supplier quality manual, or Purchase Order specifies IPC-1754 XML submission. It does **not** include GHG or Scope 3 emissions data.

Evidence Required & Small-Supplier Effort Cost

Suppliers respond using an IPC-1754-compliant XML declaration (often via customer portals or compliance platforms) at the requested depth: **Class E** (query-level true/false/unknown compliance), **Class F** (declarable substance mass or

percentage against a list such as IAEG AD-DSL), or **Class G** (Full Material Disclosure down to homogeneous material level).

Standard purchase fees from IPC and third-party compliance software subscriptions vary by vendor; exact small-supplier compliance costs are **not in our data**.

WA Space Cluster Segments & Companies Affected

IPC-1754 lands on hardware, coatings, sealant, and electronics suppliers in Components & Suppliers and Satellite Manufacturing, including Sienna Technologies, PacAero, Crane Aerospace & Electronics, and Janicki Industries.

Verified Primary Sources & Internal Bridges

• IAEG — International Aerospace Environmental Group: https://www.iaeg.com/

• Global Electronics Association (IPC): https://www.electronics.org/