

Material Data Sheet - Free-Cutting Brass IS 319

Litebow machines precision turned components in free-cutting brass, typically IS 319 Type I (near-equivalent: BS 249 Type I). This data sheet summarizes the nominal composition buyers specify on drawings.

Nominal composition - IS 319 Type I (CuZn39Pb3 class)

Element	Content
Copper (Cu)	56.0 - 59.0 %
Lead (Pb)	2.0 - 3.5 %
Iron (Fe)	max 0.35 %
Other elements (total)	max 0.5 %
Zinc (Zn)	remainder

Why free-cutting brass

- Lead content gives excellent machinability for CNC turning - clean threads, sharp profiles, high surface finish.
- Good corrosion resistance for indoor and protected outdoor service; nickel or tin plating extends it further.
- Lead-free / low-lead grades can be discussed against your drawing and regulatory requirements.
- Mill test certificates for the supplied grade are available on request with your order.

Contact

Hardik Mandaviya: +91 99784 77777 | Dinesh Mandaviya: +91 97123 01060 | contact@litebow.in / sales@litebow.in