



AMBIENT STYLE DUST COLLECTION IS DANGEROUS FOR TITANIUM DUST.

If you do a google search for "titanium dust cloud in machine shops" this is what Google AI provides:

"A "titanium dust cloud" in a machine shop refers to a fine dispersion of airborne titanium particles, which can be extremely dangerous due to its pyrophoric nature, meaning it can spontaneously ignite when exposed to air, potentially causing a powerful explosion if ignited by a spark or heat source, even from a small static electricity build-up; therefore, strict safety measures are crucial when handling titanium dust in a machine shop environment. "

This is what that means:

Titanium dust has a Kst value of over 300. For reference...polyurethane dust is 156 Kst. Given this degree of explosivity, I still see ceiling-mounted Ambient Dust Collector installations in machine shops for titanium dust plumes. These units are unsuitable for collecting explosive dust for more reasons than I can list here. The correct solution here is to do a DHA and follow the recommendations based on NFPA 484. If you are not familiar with them, that is okay because we are. Call us today at (800) 635-0298, and we will advise you on a productive and safe solution. And in line with NFPA 484.