



Technical Data Sheet

BDT-1500HT Nano-Ceramic Thermal Coating

Suggested uses; exhaust systems, manifolds, thermal sheilds, electronic enclosures, etc.
BDT-1500 is a high temperature thin film protective coating which can be used on all ferrous and non-ferrous metal substrates, composite & plastic substrates, etc.
BDT-1500HT is design to reduce thermal transfer and/or radiated temperatures.

BDT-1500HT Properties:

- Color _____ Solid tone (Dark bronze)
- Viscosity _____ 20-23 sec. #2 Zhan
- Percent of Solids _____ 65-75% ±2%
- Odor Liquid _____ Slight Solvent
- Odor Cured _____ None
- V.O.C. _____ Exempt per CFR 51.100/regulation 8
- Thermal Stability (cured) _____ >871.1°C (1600°F+)
- Conical Bend (1/8 inch mandrel) _____ Passed (ASTM D522-93a)
- Adhesion _____ 5B (ASTM D3359-02)*
- Impact Direct _____ 130lbs (ASTM D2794-93)*
- Specific Gravity _____ 1.04± 2% (ASTM D891.09)
- Average Dry Film Thickness _____ 20-25 microns (.5 to 1 mil)
- Estimated Coverage Rate _____ 1767 sq./ft. per gal. @ 0.6 mil/15 μ
- Estimated Coverage Rate _____ 1042 sq./ft. per gal. @ 1.0 mil/25 μ
- Cure time (@ Ambient 65-70°F) _____ 5 days @ 23.8°C (75°F)
- Cure time (forced air oven) _____ 2 Hours @ 176.6°C (350°F)
- RoHS _____ Compliant
- Halogens _____ None
- Salt Spray (5% solution) _____ 4000+ Hours
- Pencil Hardness _____ 7h (Ambient cure)*

*Properties will increase with elevated temperature or forced air oven cure cycle.