



## Certificate of Compliance

### ADB® SAFETY ENGINEERED TITANIUM-CADMIUM (TI-CAD) HOIST RINGS

ADB®'s QUALITY SYSTEM IS REGISTERED TO ISO 9001-2015

The material used in our ADB® Safety Engineered Ti-Cad Hoist Ring components is AISI 4140 or equivalent and conforms to ASTM A322 and ASTM A108.

#### CHEMICAL ANALYSIS

Carbon	.38/.43	Silicon	.15/.35
Manganese	.75/1.00	Chromium	.80/1.10
Phosphorus	.035/Max	Molybdenum	.15/.25
Sulfur	.040/Max		

ADB® Safety Engineered Ti-Cad Hoist Rings are designed with a design factor of five times the rated capacity based in any lifting direction. However, the user is reminded that it should not be used to lift loads that exceed the rated capacity.

If any component or components of the hoist ring is replaced with a non-ADB® component, this certification is void.

ADB® Safety Engineered Ti-Cad Hoist Rings are designed to exceed the following military specifications and ASME standards:

MIL-STD-1365	General design criteria for handling equipment associated with weapons systems.
MIL-STD-209	Slings and tie down provisions for lifting and tying down military equipment.
ASME B30.26	Safety Standards for cableways, cranes, derricks, hoists, hooks, Jacks and slings.

- The surface finish of ADB® Safety Engineered Ti-Cad Hoist Rings is plated per AMS-2419-1.
- ADB® Safety Engineered Ti-Cad Hoist Rings are not exposed to any equipment or material known or suspected of having mercury or polychlorinated biphenyls (PCB's).
- ADB® Safety Engineered Ti-Cad Hoist Rings components are NDT inspected per ADB®'s Internal procedures in accordance with ASTM E1444 or ASTM E1417 (NAVSEA testing available upon request) prior to plating.
- ADB® Safety Engineered Ti-Cad Hoist Rings are heat treated to 36-48 RC.
- ADB® Safety Engineered Ti-Cad Hoist Rings critical, load bearing components are hardness tested for material, and heat treat verification.
- Screws and studs are produced from 170,000 PSI minimum tensile strength material. ADB® alloy inch screws conform to the requirements of ASTM A574-Standard Specification of Alloy Steel Socket Head Cap Screws..
- ADB® Safety Engineered Hoist Rings comply with DFARS (Defense Federal Acquisition Regulation Supplement)- 252.225-7009 - Restriction on Acquisition of Certain Articles Containing Specialty Metals.
- Made in U.S.A.
- Unique traceability number laser-marked on each unit for identification and tracking.
- Proof testing done on every standard Safety Engineered Ti-Cad hoist ring manufactured.

Benjie Bradshaw  
Vice President/General Manager