



TIN-ZINC CODE 4019

Today's demanding industrial applications require well-engineered and proven deposits that pose as little risk as possible to both the operator and the environment. SIFCO's Tin-Zinc solution provides a superior quality deposit that can be applied anywhere, in the shop or in the field.

SIFCO ASC's environmentally friendly, 80% Sn 20% Zn alternative to cadmium is easy to use, provides excellent corrosion protection, good lubricity, and does not require a hydrogen embrittlement relief bake after plating.

The SIFCO Process of selective plating is an industrial plating process that is designed for demanding applications in OEM and repair. SIFCO has developed and refined its products over the last fifty years to provide the highest quality, adherent deposits that are needed to meet industry's ever changing requirements.

Why use Tin-Zinc?

Less toxic alternative to cadmium

Excellent corrosion protection

No post-plating bake required

Meets the requirements of AMS 2451/10



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Tin-Zinc Deposit at 400x

Cross section of a 0.004" thick deposit plated onto a low carbon steel substrate. The microporous deposit exhibits excellent cohesion and adhesion to the substrate.

DEPOSIT DATA

Composition	80% Sn : 20% Zn by weight
Structure	Microporous
Corrosion Resistance	96 hours (ASTM B 117)
Maximum Thickness	0.005 inch
Plating Rate	0.007 inch/hr.

Tin-Zinc, Code 4019 offers excellent corrosion protection for steel by combining the barrier protection of tin and the galvanic protection of zinc, without the bulky corrosion product associated with a zinc coating. In addition to corrosion protection, the alloy provides good lubricity and solderability.

Passes ASTM F 519 HE Test with Type 1a.1 bars and Type 2a O-rings without post plating bake.

Passes 96 hours of salt spray per ASTM B 117. With a Trivalent Chromium Conversion coating, the deposit will withstand 500 hours of salt spray without basis metal corrosion!