

## TECHNICAL DATA SHEET

### ZINC BLACK – 62

Zinc Black 62 is a low temperature immersion process for producing jet black hexavalent chromate conversion coating on zinc, zinc diecastings after alkaline zinc, cyanide zinc and acid zinc plating.

Zinc Black 62 offers good corrosion and abrasion resistance. It can be used both for rack and barrel operations.

#### OPERATING CONDITIONS:

Zinc Black 62 A	80-120 cc/l
Zinc Black 62 B	80-100 cc/l
pH (electrometric )	1.2-2.5
Temperature	25-35°C
Time	80-120 seconds

#### MAKE-UP:

- Add 2/3<sup>rd</sup> volume of DM water.
- Add required quantity of Zinc Black 62 B. stir to dissolve.
- Add required quantity of Zinc Black 62 A. stir to dissolve properly.
- Use D.M. water for make up. Now stir properly for 2-3 minutes.
- Check the pH. Adjust if necessary using 50% NaOH solution to increase pH or 50% H<sub>2</sub>SO<sub>4</sub> for lowering pH.

#### CYCLE:

- Zinc plate.(6-9 microns)
- Water rinse.
- Water rinse.
- 1-2% sulphuric acid dip.
- Water rinse.
- Immerse in Zinc Black 62. (30-90 seconds and temperature - Room)
- Water rinse.
- Air drying (below 60°C).
- Coating will attain corrosion resistance after 24 hours.

**EQUIPMENT:**

Tanks made of PP, PVC or steel tank with fiber glass lined can be used.

**REPLENISHMENT:**

Bath is replenished by visual observation or by analysis. Small additions of 1-2 parts of Zinc Black 62 A and 1 part of Zinc Black 62 B are added to the bath with stirring. If coating is iridescent after replenishment addition of Zinc Black 62 B can be increased.

**CAUTION:**

Zinc Black 62 are strongly acidic and oxidizing in nature. Wear protective rubber gloves and aprons while handling. In case of contact with eyes or skin flush with plenty of water.

**WASTE TREATMENT :**

Zinc Black 62 solutions contain chromic acid (hexavalent) and zinc. It should be neutralized with ferrous sulphate to trivalent stage and upon reduction it should be neutralized with alkali (pH 7-8) before discharging into sewage.

**DISCLAIMER:**

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