

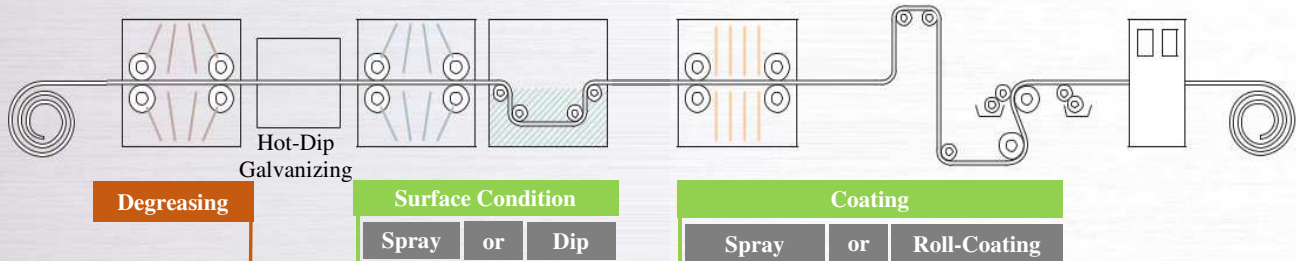
Chemicals for Hot-Dip Galvanized Steel Sheet

Used for hot-dip galvanized steel sheets that require high corrosion resistance.

Application ;
Steel sheet for construction
Steel sheet for Undercarriage of Automotive



Process chart example of CGL (Continuous Galvanizing Line)



Example of Combination

| Chemical Type | Products | Remark |
|---------------------|------------------|-----------------------------|
| Alkaline Degreasing | FC-E6000 series | |
| Additives | AD-E5654, AD-F50 | Improve degreasing capacity |

Example of Combination

| Purpose | Variation | Surface Condition | Chemical Type | Products | Remark for plating variation |
|-------------------|-----------|-------------------|---------------|-------------------|------------------------------|
| Primery Anti-Rust | ① | - | Chromate | ZM-3391, ZM-G5304 | For Zn, 5%Al-Zn |
| | ② | - | | PM-283 | For 55%Al-Zn |
| | ③ | PL-4018 | Chromate | ZM-3391, ZM-G5304 | Improve Blacking Resistance |
| | ④ | - | Chrome-Free | CT-E*** series | |

Details

| Application | Type | Product | System | Temp. °C | Time s | PMT °C | Remark |
|-------------------|-------------|------------------|--------------------|----------|--------|----------|--|
| Degreasing | FINECLEANER | FC-E6000 series | Spray, Dip | 45 ~ 65 | 1 ~ 10 | - | Re-make up depend on Oil-Concentration |
| | ADDITIVE | AD-5654 | Spray, Dip, | 45 ~ 65 | - | - | Add to Degreasing solution |
| | | Other AD aseries | Spray, Dip | - | - | - | Add to Degreasing solution |
| Primery Anti-Rust | PALENE | PL-4018 | Spray, Dip | RT ~ 50 | 1 ~ 5 | | Ni treatment |
| | ZINCHROM | ZM-3391 | Spray, Roll-Coater | RT ~ 50 | 1 ~ 5 | 60 ~ 80 | Chromate |
| | | ZM-G5304 | Spray, Roll-Coater | RT ~ 50 | 1 ~ 5 | 60 ~ 80 | Chromate |
| | PALCHROM | PM-283 | Roll-Coater | RT | - | 60 ~ 80 | Chromate for 55%Al-Zn plating |
| | PALCOAT | CT-E*** series | Roll-Coater | RT | - | 60 ~ 120 | Chrome-Free (Zr and resin type) |

The above chemicals are representntative example. We can suggest the most suitable chemicals for each customer.

Please contact us at first.