Technical Data Sheet

R•G-165 Trivalent chromium color passivator

version	**date**	**creation**	**approval**

Company has built a strategic partner with German KIESOW and has built a manufacturing service platform in all aspects. High quality products, exquisite technology and technology have won the praise and favor of the industry. Products are widely used in automobile manufacturing, high-end bathroom, high-end electrical appliances and hardware and other fields.

1 Features

Features	※RG-165 series is a trivalent chromium passivation process without hexavalent chromium. It is a series of environmental protection products. It is suitable for manual or automatic line. It is the best process for European and American export orders. ※ This product does not contain dyes, which is the best process to replace the traditional hexavalent chromium. ※ Super corrosion resistance, ASTM b-117 neutral salt spray test > 120h, especially suitable for auto parts industry. ※The structure of the film is compact, and it will not decolorize after passivation, and the corrosion resistance of the film will not be affected after heat treatment. ※It is easy to use and maintain; the passivation solution has long service. life and low cost.

2 Operation

Operation

Condition	Range	Optium
R·G-165 passivator(ml/L）	60-120	80
PH	1.8-2.3	2.0
Temperature（℃）	20-45	25
Time	30-90S	60S
Stir	Mechanical or low air stirring	

3 Preparation	
Preparation	※ Add about 1 / 2 volume of pure water into the spare tank. ※ Add the required RG-165 color zinc passivator, add water to the required volume, and stir until uniform. ※ Detecting the pH value of the solution, then mass production.

4 Functions	
Functions	※ Total consumption per 100 m2 of treated surface area:0.5-1L. ※ In the production process, impurities increase gradually. When the concentration of Zn2 + in the passivation solution reaches 6-12g / L (which can be removed by precipitation or ion exchanger), at least 1 / 5 of the old bath solution is arranged to be removed, and then the additional measurement is added. If Zn2 + reaches 13g / L, it should be treated immediately. ※ At ordinary times, the supplement of passivator A and agent B: 4-5 parts of agent a and 1 part of agent B.

5 Concentration detection	
Concentration detection	※ Draw 5ml of working solution, put it into a 250ml conical flask, and add water to 100ml. ※ Add 10ml of mixed acid solution (H2SO4: h3po3: H2O = 5:1:4) ※ Add about 2g ammonium persulfate ※ Put the conical flask on the electric furnace to heat and boil. After boiling for 5 minutes, stop heating and cool to normal temperature. ※ Add 3-5 drops of PA acid indicator and titrate with 0.1mol/l ammonium ferrous sulfate standard solution until the color of the solution is bright green.

Functions	※ Concentration（%）=8.66×C×V C- Actual concentration of ammonium ferrous sulfate standard solution used in titration（mol/L） V- Milliliter of ammonium ferrous sulfate standard solution used in titration（ml） When the calculated result is 7-12%, it is normal