

# Electrolytic Recovery of Zinc From Galvanizers Sal Skimmings.

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Description: -

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Report of investigations (United States. Bureau of Mines) --

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## [PDF] Electrolytic Recovery Of Zinc From Galvanizers Sal Skimmings

When a liquor having a total soluble salts con. Best results are obtained if the bath is acid.

### Minimizing Zinc Consumption

. For example, the temperature can be increased up to about the boiling point of zinc chloride, which I regard as a maximum temperature not to be exceeded since it is not desired that the zinc chloride be volatilized. The gravity of the slurry should be around 30 to 350 B6.

### Minimizing Zinc Consumption

In a process for recovering values from galvanizers' sal skimmings containing insoluble material and zinc and ammonium chlorides in the ratio of less than 3 moles of ammonium chloride per mole of zinc chloride, the step comprising treating the skimmings with a dilute ammonium hydroxide solution, the parts by weight of ammonium hydroxide used per hundred parts of sal skimmings being not substantially less than the amount calculated from the expression.

### Minimizing Zinc Consumption

Of this total -Eat content 46.

### Process for the recovery of zinc values from galvanizers' skimmings

The building up of the amount of zinc chloride-ammonium chloride double salt or ammoniated zinc chloride which must be produced causes the entire process at times to become economically unbalanced. This consideration is of the greatest importance in commercial operations and by observance of the indicated limitation the process may continuously and effectively be operated. This procedure is not only expensive, but the

amounts of.

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The manner of determining the proportion of soluble zinc values to be so precipitated will be fully set forth in the following description of my invention. Nickel reduces the growth of the intermetallic layers in steels with chemistry that falls into the Sandelin Range. The-insoluble material, ceon taining basic zinc chloride, metallic zine, andi other insolubles was then filtered off, and thea press cake was washed with water, the washs water being kept separate from the filtrate.

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Recovery of zinc chloride, ammonium chloride and metallic zinc values from sal skimmings has been the objective of numerous processes heretofore proposed. The washed filter cake finally obtained consists essentially of zinc hydroxide.

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