

ITOFLAM ZLS can be used in combination with ITOFLAM WXZ and ITOFLAM ZCO to provide a low smoke flame retardant finish on wool and wool rich blends.

## PROPERTIES

- **Appearance** : Clear Liquid
- **Type** : Zirconium Acetate
- **PH** : 3 - 4
- **Solids Content** : 20 - 24
- **Density** : 1.29 - 1.32g/lcm<sup>2</sup>
- **Stability** : 2 years

## APPLICATION

### In Exhaustion:

- **ITOFLAM WXZ** : 6-8%
- **ITOFLAM ZCO** : 3.2%
- **ITOFLAM ZLS** : 7 - 24% (Optional)
- **Drying** : 110°C for 2 min.

## CHARACTERISTICS

1. Gives low smoking when co-applied with ITOFLAM WXZ, ITOFLAM ZCO

## DISCLAIMER

The information herein offered is based on the best of our knowledge at present. However, we are not able to guarantee these matters, as the result of application may vary according to conditions adopted. Preliminary tests are, therefore, recommended in all cases. Please refer to MSDS regarding handling of the products.

**MAGNACOLOURS**<sup>®</sup>  
IMAGINATION INK<sup>™</sup>



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## APPLICATION

### Standard Treatment for Low Smoke

For optimum results, the material should be free from any grease, oils or sizes, ITOFLAM ZLS can be added directly to the bath, however, pre-dilution is recommended.

To a fresh batch at 25°C

### Treatment for low smoke

To a fresh batch at 25°C

1. Add 0.1 - 0.5g/l ITOWET LJ10
2. Add 18% formic acid
3. Run for 5 minutes
4. Add 6% Citric Acid
5. Run for 5 minutes
6. Add 3.5% owg ITOFLAM WXZ (pre-dissolved)
7. Run for 5 minutes
8. Add 7% owg ITOFLAM ZLS
9. Run for 5 minutes
10. Add 9.6% owg ITOFLAM ZCO
11. Run for 5 minutes
12. Raise temperature to 70°C at 1°C/minute
13. Run for 30 minutes
14. Cool to 40°C at 1°C/minute
15. Rinse with cold water for 10 minutes.

### Important Notes

ITOFLAM ZLS can effect certain dyes by altering the shade. It is recommended that lab and bulk trials are performed prior to full production.

The exhaustion ITOFLAM ZLS can be impaired by sulphites and phosphates.

ITOFLAM ZLS should not be applied after chrome dyeing.

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