



## TECHNICAL DATA SHEET

**Product** : ECO friendly Loco 290 Oe Water-based magnetic slurry,

Reference : **MAL-2221 (for LoCo stripes)**

Removable product from paper allowing recycling of paper fibres, ("green product")  
Fully biodegradable product (except iron oxide pigment),  
Resistance to water or moisture affecting the coating can be adjusted under request,

### **Application** :

\* water based magnetic slurry for striping magnetic tickets,

Stripping process :

- slot die, extrusion nozzle,
- knife coating,
- flexographic or gravure roll coating head, (smoothing system is highly recommended in order to erase pattern from the gravure),

Substrate : paper, cardboard, treated plastic. Thermal paper, unprotected thermal paper.

### **Characteristics** :

Magnetism : Hard magnetic range, Low Coercivity material (315 Oe)

Storage conditions : Store above water freezing point and below 55°C

Colour : dark brown to black,

Solvent : water

Dry content : 43% - 48%

### **Technical advice:**

thinner : (tap) water,  
never add ammonia , nor amines,

Non-magnetic thinner: **MAT220**, dispersion of mineral pigment in same formulation as magnetic ink itself.

low drying diluent : (tap) water

fast drying diluent: Isopropanol/ (tap) water mixture (50/50), 10% is a maximum,



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Homogeneization before coating :

- high speed stirring for at least 15 minutes, until product recovers smooth and homogeneous aspect, and until no pigment deposit remains at bottom of the drum. (avoiding absorption of air)
- add water to thin down viscosity to suitable value (for gravure printing and wet ink surface smoothing, add some 0 to 7% of water ) and provide additional high speed mixing for at least 5 minutes.

Filtration : Purpose is only to stop and remove from ink some dried skins or agglomerates returning from coating head. Usually, 70 mesh metallic screen cartridges work well. Never use filters (bags or cartridges) whose porosity is smaller than 200 microns,

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