



INDUSTRIAL  
LUBRICANTS &  
SERVICES LIMITED

## Technical Data sheet

# ILS-DURAGUARD 223

Chlorine free vanishing oil

### Description

**ILS DURAGUARD 223** is a low viscosity, chlorine and heavy metal free, metal stamping fluid. It is a blend of high lubricity boundary lubrication additives, in a low odour, dearomatised hydrocarbon.

### Typical Applications

**ILS DURAGUARD 223** is specially formulated for use in light duty sheet stamping operations where very low residues are required, in most cases eliminating the need for inter process cleaning.

It is especially recommended for use in electrical steel stamping applications.

It is suitable for use on light gauge uncoated steels as well as zinc coated steels, and yellow metals.

### Advantages

- Excellent health, safety and environmental profile. Formulated on mild odour, very low aromatic dearomatised hydrocarbon and free from chlorinated and heavy metal containing constituents such as Barium.
- Contains high performance boundary lubricants which maximise punch life and provide excellent surface finish. Minimises costs associated with tool repolishing.
- Reliable short term corrosion protection minimises rework costs.
- Quick drying, low residue characteristics can eliminate requirements for inter process cleaning.
- Superior wetting provides thin, homogenous lubricating film.
- Low viscosity. Maximises flushing effect to aid removal of particulates from punches and dies, minimising component defects. Reduces drag out rates hence reduces product consumption.
- Low odour and improved working environment. Excellent operator acceptability.

### Typical Properties

Name	Test Method	Units	
Appearance	Visual	-	Clear, colourless fluid
Density @ 15 °C	DIN 51 757 / ASTM D 1298	kg/m <sup>3</sup>	770
Viscosity @ 20°C	DIN 51 562	mm <sup>2</sup> /s	1.6
Flash Point	ISO 2592	°C	62
Copper corrosion	DIN 51 759 T1 / ASTM D 130	3 h at 100°C	1a

ESTER	SULPHUR	PHOSPHOROUS	CHLORINE	OTHER
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