

# WS2 IN THE PLASTICS INDUSTRY

WS2 is applied both in moulding surfaces and slides with proved benefits. In **moulding areas** WS2 reduces friction between steel and resin, thus:

- Enhances resin flow at the filling stage allowing to reduce processing temperatures and pressures. This effect improves mould filling allowing faster cycles - above 10% in thin wall parts.
- Acts as a permanent release agent during ejection without contaminating nor affecting its finish. WS2 reducing streaking and drag.

In **moving components** - tubular ejectors, angle pins, wear plates - WS2 provides lasting lubrication without contaminating the parts. WS2 is FDA approved for contact with food products. Electronic components, parts to be chrome plated or welding in bi-material injection, are some examples where grease or silicone contamination is not tolerated.

WS2 users have experienced na improvement in product quality and reduced required operating pressure and temperatures, as well as significantly lower operating costs resulting from faster cycling and increased tool life.

## WS2 provides:

- Maintenance of the dimensional integrity of the substrate to within 0.5 microns with no build up.
- Enhancement of the flow of resin due to its low coefficient of friction.
- Reduction in part weight: part is not packed as tight.
- Quicker release of parts.
- Reduction of pressure and mould wear.
- Lower operating temperatures.
- An inert, inorganic, non-toxic, non-distortive and non-corrosive lubrication that is resistant to most fuel solvents.
- The capability to produce more parts per hour.
- Compatibility with - and enhancement of - all other lubricants and releasing agents.
- Bonding to all metal or plastic materials and platings and can't be removed without eliminating the bonded substrate.
- Elimination of material transfer to finished parts.
- Application to no.1 diamond mirror finish... lense quality.
- 100% lubricity throughout the entire mould.
- Application into slots or holes as small as 1.5mm.
- Application to entire mould surface or only to specified inserts, cavities and core pins.

## WS2 doesn't:

- Require heat curing.
- Build-up on corners and edges.
- Transfer to finished parts, therefore not requiring secondary cleaning for painting, plating, etc.
- Alter the finish of the part.