

Glass

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For over 30 years Kennametal Stellite™ has provided high performance products for the glass industry. We continue to innovate products which help glass manufacturers achieve performance levels by extending the life of critical parts and performance, and by reducing contamination.

Manufacturers of glass components require elevated temperatures to 'work' the glass. The heat and the abrasive nature of molten glass cause wear on many components. Kennametal Stellite products are used on mould edges to prevent such wear and therefore maximise production efficiencies.

Deloro® powders are commonly chosen due to their combination of heat & corrosion resistance coupled with their thermal shock and thermal conductivity properties. Traditionally glass manufacturers have applied our powders by manual welding, however PTA welding is becoming more popular. As you can see from the table below, Kennametal Stellite are happy to offer powders for either method of deposition.

Powder	Hardness	Method of Application	General Uses
Deloro® 21 KX	21-28 HRC	Manual Welding	Good general use powder. Used for building edges or local repair. Hardness depends on base material. Commonly used on Minox.
Deloro® 22 KX Deloro® 22 KS	20-22 HRC	Manual Welding	Good general use powder. Can be used for building up edges or local repair. KS is finer and so is better suited to repair. Can be hand finished.
Deloro® 29 KX	27-30 HRC	Manual Welding	Similar to Deloro® 22 but slightly harder. Machine finish required.
Deloro® 34 KX	33-37 HRC	Manual Welding	Slightly harder than Deloro® 29. More commonly used for neck rings & guide plates. Well suited to Minox.
Deloro® 40 KX Deloro® 40 S	38-42 HRC	Manual Welding	Slightly harder than Deloro® 34. Used on neck rings & baffles. Can also be used for spray & fuse onto plungers.
Deloro® 22 WM	20-22 HRC	PTA	Tough Build up alloy for Cast Iron & Steel Components. Used extensively for the manufacture & repair of hollow glass moulds.
Deloro® 25 WM	25-28 HRC	PTA	Similar to Deloro® 22 but slightly harder & more fluid.
Deloro® 30 WM	27-30 HRC	PTA	Intermediate properties between Deloro® 25 & 35. Used for the hardfacing of Neck Rings & Baffles in glass industry.
Deloro® 105 E	24-26 HRC	PTA	Specially designed for the deposition onto Minox by PTA welding. Easily machinable.

PRODUCTS

- Wide Mouth Press
- Blow plungers and Blow blow plungers
- Press-blow-plungers, including narrow neck
- Neck Rings
- Ring Inserts
- Guide Rings
- Baffles

APPLICATIONS

- Ni Powders: The wide range Ni Powders are specifically developed for hardfacing of neck and guide rings, moulds, baffles and baffle inserts.
- Co alloys: Narrow Neck Plungers, Baffle inserts.
- Ni alloys: neck and guide rings, moulds, baffles and baffle inserts, Blow blow Plungers.
- Tungsten Carbide Coating: Narrow Neck Plungers.
- Forged Co alloy: Gob Shear Knives in Stellite 6B.

TYPICAL ALLOYS INCLUDE:

- **STELLITE® 6**
- **STELLITE® 12**
- **STELLITE® 21**
- DELORO® 40 G
- DELORO® C30
- DELORO® C44
- DELORO® C41

