

# WELDING POWDERS

**Nickel Based Alloys:** A range of Alloys primarily supplied for the spray fuse and powder weld processes.

## Deloro 15K

Soft machinable crack resistant alloy with excellent wetting characteristics and heat transfer. Deposits are tough, easily machinable and easily applicable by any spray and fuse powder welding process. Ideal for build up, joining, especially cast irons and its various grades, **i.e manifolds etc.** Hardness 12-17 HRC

## Deloro 22K (202p)

Tough build up alloy with high machinability for use where soft, readily machinable overlay is desired on cast irons and steels, **ie foundry industries, repairs of castings, engine blocks and heads, filling / cladding of cast irons, shafts etc.** Hardness 18-24 HRC

## Deloro 35K (302p)

A versatile alloy with good wear, abrasion, corrosion and impact resistance. Good hot hardness up to 400°C. Medium hard, but machinable, **i.e foundry industries, blowing heads, glass moulds, nozzles, funnels, seal surfaces, splines etc.** Hardness 32-42 HRC

## Deloro 40K (402p)

Similar to Deloro 35K but with increased hardness to offer a good combination of user-friendliness and wear resistance, **i.e applications for repair work by custom hard facing shops, repair of worn surfaces, valves seatings and faces etc.** Hardness 38-45 HRC

## Deloro 50K (502p)

Used where mild impact is possible as it has a lower crack sensitivity than Deloro 60. Hot hardness maintained up to 400°C, surface repair work for medium high hardness machinable overlays. It is a good compromise between abrasion resistance and machine ability, **i.e build up worn areas or used parts, extruder screws, wear rings, bearings, cam shafts.** Hardness 47-53 HRC

## Deloro 60K (602p)

Fused coatings offer a very high degree of abrasion and corrosion resistance designed for surface repair work, high smooth hardness, superior high temperature oxidation resistance, high hot hardness. Widely used on pump plungers, seal rings, mechanical couplings and machine parts subject to sliding contact and abrasive particles. Often used with extra reinforcement with the addition of tungsten carbides (**see below**) Hardness 57-65 HRC

## Tungsten Carbide Alloys:

### 6P50WC

Nickel-chromium-boron hard alloy with embedded tungsten carbides for wear resistance surfacing on components subjected to high abrasive wear. Ideal for drilling equipment rebuilding and conveyor screws leading edges.

### 6P80WC

Nickel-chromium-boron hard alloy with embedded tungsten carbides for extreme wear resistant applications on components subjected to extreme abrasive wear. Ideal for drilling equipment rebuilding, farming equipment, conveyor screws leading edges.

