



# Desgastec Tritten Products

## HARDFACING ELECTRODE

The Desgastec range of tubular electrodes has been developed specifically for wear resistant hardfacing. The properties of the alloys making up the tubular electrode range have been engineered to provide extended service life at ambient and elevated temperatures in aggressive environments involving abrasion, erosion, and impact. In addition to hardfacing sections of plant, Desgastec Tritten T-23 and Desgastec T-34 can be used on compatible wear resistant overlay plates.

### RELIABLE AND EFFICIENT ON-SITE PERFORMANCE

Unlike comparable extruded welding rods, the outer coatings of Desgastec Tritten tubular electrodes are moisture resistant. They do not require special storage conditions, will not flake when damp, and resist mechanical damage. All electrodes can be used direct from the packet, without pre-baking with no need for de-slagging between runs, and application is fast and efficient.

A unified stub end size enables all electrodes to be used in a standard holder. Hardfacing can be carried out using most portable AC or DC welders.

### TUBULAR ELECTRODE DESIGN-LESS DISTORTION

The special tubular construction of Desgastec Tritten electrodes has many practical advantages over extruded welding rods and hardfacing wires. They require low operating currents, which produces less heat leading to less base metal penetration. This gives reduced distortion, minimizes risk of burn-through, and less dilution of the alloy overlay.

Low operating currents also allow hardfacing on thin sections right up to and around the edges of auger flights, scraper and mixer blades, and other worn sections.

Deposition rates can be increased by introducing a second electrode into the weld pool, for example, during cast welding procedures used to protect bolt heads, etc.

### DESGASTEC TRITEN T-23

TIP COLOR: Blue

An alloy with very high abrasion resistance at temperatures up to 650°C (1200°F) and an ability to withstand fine particle erosion. Not suitable for high impact conditions.

ELEMENT	C	Cr	Mo	V	Nb	V	HRC*
Wt%	5.5	19.0	5.0	1.0	5.0	2.5	60-64

#### Microstructure

Hyper-eutectic with primary chromium carbides and additional niobium carbides in an austenitic-eutectic matrix. The total amount of carbides is about 60-65%.

#### Typical examples of applications

Repairs to overlay plate, coke plant, burden areas of blast furnace charging devices, boiler fan blades, blast furnace deflecting plates, sinter plant hot crusher parts, hot sinter screens, exhaust fan blades in sinter and pelletizing plants.

### DESGASTEC TRITEN T-23

TIP COLOR: Pale Green

Developed to offer excellent abrasion resistance in high velocity, fine particle applications in which erosive wear is a major problem.

ELEMENT	C	Cr	Mo	V	B	HRC*
Wt%	5.5	19.0	5.0	1.0	5.0	60-64

#### Microstructure

Hyper-eutectic chromium carbides in a very fine grained martensitic-eutectic matrix.

#### Typical examples of applications

Repairs to overlay plates, blades, and housings.

## Wear Resistant Hardbanding Alloys for the Worldwide Petroleum Industry

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