

TECHNICAL DATA

# DelFer 410L ALLOY

**IRON BASED DelFer 400 SERIES ALLOYS** offer fair resistance to sliding wear and cavitation erosion and are inherently resistant to corrosion. The key elements in the alloys are Chromium which imparts improved sliding wear and corrosion and cavitation resistance.

**DelFer 410L** is an AISI 410 stainless steel powder with fair metal-to-metal wear characteristics. Used as a hard facing on valve trim especially in the water industry. Plasma sprayed DelFer 410L can be built up to 3mm thickness and is used for general build up and to offer selective erosive protection on shafts. Useful up to 650°C (1200°F).

Also available as a thermal spray powder which is particularly suitable for HVOF or for thinner, denser plasma spray coatings.

**Corrosion Resistance** DelFer 410L provides good corrosion resistance to air, water, food acids and satisfactory resistance to some other environments such as ammonia, nitric acid, concentrated sulfuric acid, dilute acetic acid. Maximum corrosion resistance is achieved in the fully hardened condition.

## NOMINAL CHEMICAL COMPOSITION (MASS%)

ALLOY	Fe	C	Cr	Others
DelFer 410L	Bal.	Max.0,03	11,50-13,50	Si, Mn, Ni

## PHYSICAL PROPERTIES

ALLOY	Hardness	Density	Melting Range
DelFer 410L	150 - 390 HV*	~ 7,7 g/cm <sup>3</sup>	~ 1495 – 1515°C

\* based on the heat treatment.

## Consumables for Cladding / Hardfacing and Additive Manufacturing (AM)

Powder	PTA Cladding	Laser Cladding	HVOF Spraying	AM