

N-580-HV

Nickel Hard-surfacing alloy

APPLICATION

HVOF

HARDNESS

55-61 Rockwell C

CHEMICAL COMPOSITION

Ni Bal	B 3.0%	Fe 4%
Si 4.5%	Cr 14%	C 0.7%

POWDER SIZE RANGE

63-20 μm 53-20 μm 45-15 μm

PHYSICAL PROPERTIES

Apparent density: 4.2 (powder)

Hall flow (seconds/50 gms): 15

Melting point ($^{\circ}\text{C}$): 1015

Specific gravity: 7.8 (alloy)

Thermal Coefficient
of Expansion ($^{\circ}\text{C}\times 10^{-6}$): 14.6

FINISHING

Finished by grinding

STANDARD PACKAGING

5 kilograms

20 kilograms



DESCRIPTION/FEATURES

High hardness alloy with excellent resistance to wear, corrosion, heat and galling.

SUGGESTED USES

The alloy has many useful applications which include: engine valves, steam valves, rocker arms, valve seats, rolling mills, pump shafts and sleeves, seal rings, mixer blades.

