

D & H INDIA LIMITED Formerly 'D & H Welding Electrodes (India) Ltd'

Hard Facing Welding Electrodes



New Generation Hard Facing Electrodes with Reliable Weld Quality

Hard Facing Welding Electrodes

BRAND NAME	TYPICAL CHEMICAL COMPOSITION(%)								HARDNESS	DESCRIPTION	
	С	Mn	Si	Cr	Ni	Мо	V	W	TIANDINESS		
DUROBUILD-A	0.18	0.76	0.42	2.00					250-300 BHN	Medium coated rutile type hard facing electrode. Weld deposit is an air hardening type carbon chromium alloy which has high degree of toughness and excellent resistance to rolling and sliding friction and heavy impact, weld metal is machinable.	Important a clutches, wh
DUROBUILD-B	0.20	0.70	0.40	3.25					340-400 BHN	Medium coated rutile type hard facing electrode depositing air hardening type carbon chromium alloy weld metal. Weld deposit is machinable and resistant to moderate abrasion and heavy impact.	Ideal electro wheels, stee
DUROBUILD-B (LH)	0.22	0.85	0.50	3.40					350-400 BHN	Medium heavy coated low hydrogen type electrode producing carbon chromium air hardening alloy weld metal. Deposited metal is machinable and resistant to moderate abrasion and heavy impact.	Important a ends and cr punching di
DUROBUILD-C	0.50	0.70	0.70	7.00	-	0.80	0.50		500-600 BHN	Basic coated hard facing electrode, depositing hard and non machinable chromium - molybdenum. Vanadium alloyed air hardening type weld deposit which has excellent resistance to severe abrasion and heavy impact.	Very useful dipper shov lips, crushe
DUROMANGAN	0.80	14.50	0.50						As welded 200-250 BHN Work hardens (under impact) to 500 BHN	Basic coated low hydrogen electrode producing 14% Mn Weld metal. The weld surface hardens readily by impact and pressure.	Highly suita crusher jaw manganese
THERMOHARD	2.50	1.40	0.50	2.80					500-600 BHN	Graphite based hard facing electrode with pleasing operating characteristics on AC as well as on DC(+)welding current. Deposited metal is air hardening type carbon chromium alloy, which has excellent resistance to heavy abrasion and moderate impact.	Important a jaws, scrap
THERMODUR-600	1.90	0.90	0.60	20.5					52-60HRC	Heavy coated electrode with easy performance characteristics on AC as well as on DC (+). The electrode depositing hard chromium carbide rich weld metal, having exceptional resistance to heavy abrasion and moderate impact even at temperature up to 500°C.	Useful on w oxidation. In Impellers, tr
THERMODUR-600 (SPL)	3.00	1.00	1.00	29.00	4.00				50-58 HRC At 550°C 45-48 HRC	Super heavy coated hard facing electrode designed to withstand severe abrasion and impact at elevated temperature. The weld metal retains its hardness up to 550°C.	Ideally suite as in blast f handling eq
SV-60	0.60	0.40	0.45	6.80					600-700 BHN	Medium coated rutile type hard facing electrode specially designed for hard facing applications involving severe abrasion and moderate impact. Weld metal is carbon chromium air hardening alloy.	Important a and such o
HARDCHROM	3.04	0.41	1.43	28.37	-	-	1.27		60-61 HRC	Specially designed electrode for surfacing applications where resistance to corrosion, erosion, oxidation, severe abrasion with mild impact specially at elevated temperature are important. The weld deposit retains hardness upto 550°C and resists scaling up to 1000°C.	Ideally suite foundry par mining agrie
CROMAX	0.11	4.50	0.50	16.50					As welded 200-250 BHN work hardens (under impact) to 550 BHN	Heavy coated electrode, producing 16Cr - 4Mn weld deposit having excellent work hardenability along with high corrosion resistance.	Ideally suite corrosion, it Other appli tyre, crushe
CRONIMANGAN	0.09	5.00	0.55	19.00	9.00				As welded 200-250 BHN work hardens (under impact) to 500 BHN	Heavy coated austenitic stainless steel electrode giving 19Cr- 9Ni - 5Mn weld deposit which work hardens rapidly under impact and gives it needed abrasion resistance.	Ideally suite pulverize, p
CRONIMANGAN-B	0.06	5.00	0.70	19.50	9.20				As welded 200 BHN work hardens (under impact) to 500-550 BHN	Basic coated low hydrogen type austenitic stainless steel electrode yielding a weld deposit of 19Cr- 9Ni - 5Mn which has excellent heat resistance properties up to 900°C and it work hardens rapidly under impact.	Ideally suite Mn-steel ra high alloy s
TOOL HARD	0.90	0.50	0.50	4.20	-	8.50	0.90	1.10	As welded 50-60 HRC Tempered 62-66 HRC Annealed 25-30 HRC	Special purpose electrode for surfacing, overlay and hard facing of components made of high speed tool, tool steel & other steels to prolong their service life. The deposit is non-machinable and can be dressed by grinding.	Ideal for bu broaching t can be dep high workin
HF- 1600 SP	0.70	1.50	0.75	3.50	4.60	3.20	0.50		54-58HRC At 550°C 45-48 HRC	Basic coated low hydrogen type hard facing electrode. Specially designed for depositing alloy steel weld metal, which can resist severe abrasion and impact at elevated temperature up to 700°C.	Electrode is bells and he
HF-BFBH	0.45	2.40	1.60	7.40	-	1.25	-	1.50	55-58 HRC	Basic coated hard facing electrode depositing highly alloyed weld metal, which has excellent resistance to heavy impact and high temperature abrasion.	Exclusive e knives, dies
HF - 1440	0.16	16.0	0.90	15.20	2.50	0.50	0.20	-	As welded 200-220 BHN After work hardening - 500 BHN	Basic coated electrode depositing tough and easy work hardening stable austenite weld metal having high temperature abrasion and impact abrasion properties.	Highly suita

APPLICATIONS

t applications are gear teeth, rail-ends and crossing, shaft, mill guide plates, pulley, wheel, axles, couplings, sprockets, pinion etc.

ctrode for building up of worn out surfaces of tractor track-links, drive sprockets, tractor steel mill rolls, crane wheel, brake shoes, shear blades, roll wobblers etc.

t applications are hard facing of mild steel and low alloy steel components, rollers, rail I crossing, couplings, shear blades, shaft, axles, pulleys, gear brake shoes, cold dies, conveyor parts etc.

ful in reclaiming costly worn out machine parts. Typical applications are churn drill bits, novel & lips, cane cutting knives, crusher hammers, shear blades, drag line buckets her jaws etc.

uitable for application involving heavy impact and abrasion, Typical applications are aws and hammers, minerals grinder, mental, buckets teeth and lips, rail crossing, ese steel casting of all type.

t applications are oil expeller worms, excavator teeth, ploughshare, crusher cones and aper blades and various parts of conveyor.

a wide variety of applications to enhance resistance to Severe abrasion, corrosion and . Important applications are rolling mill guides, cane cutting knives, pump casting and s, tractor grousers, drag line bucket lips, plough shares, coal crushing hammers etc.

uited for applications where abrasion and high temperature corrosion condition exists at furnace bells and hoppers, steel mill equipments, foundry parts, furnace rollers, coal equipments etc.

t applications are ploughshares, excavator teeth, dredger bucket lips, conveyor bucket other parts subjected to friction and abrasion.

uited for tube mill and rolling mill guide, coke chutes, blast furnace bells & hoppers, barts, hot shears, sand blasting equipments, ceramic handling equipment, and in griculture and earth moving equipments.

uited for surfacing applications involving severe impact combined with abrasion and h, it is also suited for buffer layer before putting final layer of air hardening weld metal. plications are surfacing manganese steel rails, point and crossing mill hammer, muller sher hammer and jaws, mining equipments, dredging equipments etc.

uited for buffer and build up layer for crusher hammers, crusher mantles and cones, e, plough and rolls, grousers, dipper teeth, clam shell bucket etc.

uited for joining Mn-Steel to mild steel, repairing cracks in Mn-steel casting, surfacing rails, buffer layer on variety of steels and for producing crack free joint in difficult steel, y steel including armour plates etc.

building up and surfacing worn cutting edges of lathe tools, milling cutter, twistdrill, g tools, dies, and for general surfacing application that require extreme hardness. It eposited straight on carbon steel as well as on high speed cutting steels exposed to king temperature.

e is highly suitable on wide variety of applications in steel plants such as blast furnace hoppers, tong pins roll etc.

e electrode for hard facing of blast furnace bells and hoppers, hot shears, cutting ies, crusher jaws, valve seats, tong pins etc.

uitable for welding 13% Mn steel, rail point and crossing, pipe subjected to high ure and high pressure, hard surfacing of hot shear, forging moulds, hot forging dies.

D & H INDIA LIMITED Igniting Welding Quality, Enabling Higher Productivity

D & H India Limited offers a wide range of Welding Consumables for diverse applications in industries like Steel, Shipbuilding, Petrochemical, Cement, Construction, Transport, Offshore, Energy, Repair & Maintenance, to name a few. Our products include Manual Metal Arc Electrodes, Submerged Arc Welding Fluxes & Wires, CO2 Welding Wires, Flux Cored Wires, Filler Wires and Metallurgical Cored Wires.

The company's initiative on Total Quality Management has resulted in ISO 9001-2008 certifications for both of its principal manufacturing facilities located at Indore and Ghatabilod.

Our modern manufacturing facility at Indore is equipped with the most sophisticated quality control

and R & D infrastructure. We developed various special and ultra-special electrodes to meet the ever increasing and multifarious needs of our customers. Our qualified and trained field force renders expert technical service before, during and after the sales.

With a wealth of experience and technical know-how at our command, we even undertake to provide solutions for various welding related applications.

We are firmly committed to the welding technology, quality and customer satisfaction.







D & H INDIA LIMITED Formerly 'D & H Welding Electrodes (India) Ltd'



H. O. & Works: Plot 'A', Sector 'A', Industrial Area, Sanwer Road, INDORE - 452 015 (M.P.) INDIA. Ph.: +91 731 4273501 - 511 Fax: +91 731 2722447 / 4273500 Email: ho@dnhindia.com Website: www.dnhindia.com