GROUP OF COMPANIES

(AN ISO 9001: 2008 Certified Company)

AN ISO 9001:2008 CERTIFIED COMPANY

WELDING CATALOG

A.K.INDUSTRIES

(Manufacturer / Exporter/ Supplier Of All Types Welding Electrodes, Industrial & Medical Gases,

A.K.INDUSTRIAL CORPORATION (INDIA) PVT.LTD

Manufacturer Of Wear Plates, Boiler, Tube Coating, ARC SPRAY Services

A.K.MILK PRODUCT PVT.LTD

Non Chemical and Non Human Touch Milk Products Lowest bacteria and Baby Products.

RANDHWA ENGINEERING ENTERPRISES

Heavy Fabrication Job Works

Welcome to A.K Group Of Companies

(Manufacturer / Exporter/ Supplier Of All Types Welding Electrodes, Industrial & Medical Gases, Boiler Tube Coating/ ARC SPRAY Services) Manufacturer Of Wear Plates

A.K. Industries is one of the Celebrated & Successful Manufacturer, Supplier and Exporter all types of WELDING ELECTRODES & WELDING WIRES. An Established Supplier in the Industry, We can Provide the Best Products And Services to Meet All needs. We also have good infrastructure from Machineries, Chemical lab, Mechanical Testing facilities and Effective Team Work, Enjoys the loyalty And Good Reputation Among Our Clientele Worldwide For Good Quality Products.

A Wide Range of Low Heat Input, "Welding Electrodes to Serve Maintenance & Reclamation need of end users. Our low heat Input Consumables Used by a Number of Industries like the Cement, Thermal Power, Mining, Steel, Sugar, Railways, Transportation And Fabrication Industries and Now days in ARC SPRAY(Boiler Tube Coating) Service as well. We are capable to Develop New Types of Special and ultra- special Electrodes As Per Need of Customers in India & Abroad.In the Past Years of Service, We Have Earned an Unmatched Reputation in the Industry, Under the Incomparable Leadership in of Mr. Anil. V. Kadam. (Chairman & Managing Director)

Co2 Mig Wires

Welding Electrodes

Tig Wires

web site: www.akgind.com

WELDING CONSUMABLES

DESCRIPTION	CHEMICAL COMPOSITION	APPLICATIONS

MILD STEEL ELECTRODES

AK Weld-6013
classification :
S:814:2004 : EC4211
AWSA/SFA.5.1 : E6013
A Medium coated, all Position,
Electrode for General Purpose fabrication in
Mild steel. Excellent Strike and e-striking characteristics.

C :0.10max
Mn : 0.35-0.55
Si : 0.30 max
S : 0.03 max
P : 0.03 max

- Structure and Construction Work
- Steel furniture
- Truck bodies
- Tanks and barges

DUROARC -6013
Classification :
IS:814-2004 : ER4211 X
AWS/A.5.1 : E6013
A medium HeavyCoated, Rutile Electrode
Intended for Welding Medium Sections
In Mild steel Suitable for all Position. t gives
Radiographic quality Welds in Ideal Conditions.

C :0.10max
Mn : 0.35-0.60
Si : 0.30 max
S : 0.03 max
P : 0.03 max

- Steel Structure
- Ships, Storage Tanks
- Railway Coaches
- Bridges, Boilers
- Pipe Lines

DUROARC - 6013 S
Classification :
IS:814-2004 : ER4221 X
AWS/A.5.1 : E6013
A medium Heavy Coated, rutile type
electrode, designed for adiographic quality
welds with a very stable ard and absolutely minimum
of spatter. The bead surface is very smooth and finely rippled.

C :0.10max
Mn : 0.35-0.60
Si : 0.30 max
S : 0.03 max
P : 0.03 max

- Structural Work
- Ship Building, Storage Tanks
- Pressure Vessels
- Bridges, Boilers
- Pipe Lines

DUROARC - 6013 SS
Classification :
IS:814-2004 : ERR 4221 X
AWS/A.5.1 : E6013
A Heavy Coated, rutile type electrode
for achieving Weld of sxcellent finish
with radiographic quality welds. It is ideal
or butt and fillet welding of sheet metal work.

C :0.10max
Mn : 0.40-0.60
Si : 0.30 max
S : 0.03 max
P : 0.03 max

- Boilers, Rail Coaches
- Automobile Frames & Bodies
- Locomotive Fire Boxes
- Storage Tanks
- Sheet Metal Work

Cutting Electrode :
DUROCUT
A special flux covered rapid action cutting
electrode which can be used for
cutting and piercing all ferrous and
non-ferrous materials.

- Remove flash and risers
- Piercing holes
- Cutting of farrous & non-ferrous materials including CI.

LOW HYDROGEN ELECTRODES

DUROARC - 7016
Classification :
IS:814-2004 : EB5424 H3X :
AWS/A 5.1 : E6013
a basic coated iow hydrogen electrode producing aradiographic
fveid, tough, ductile weld metal for welding heavy sections in
mild teel, medium high tensile steels subjected to dynamic loading.

C 0.10 max
Mn 0.90-1.30
Si 0.60 max
S 0.03 max
P 0.03 max

- Heavy Duty Structures
- Used as buffer Layer before hard surfacing
- Earth Moving machinery
- Joining MS with CI
- Welding of HT52W and High Tensile Steels

DUROARC - 7018
Classification :
IS:814-2004 : EB 5426 H3JX
AWS/A.5.1 : E7018
A heavy coated low hydrogen iron powder type electrode ideally
suited or producing tough and ductile welds of radiographic,
quality, 110 ecovery for welding heavy structures subjected to dynamic loading.

C 0.10 max
Mn 1.00-1.40
Si 0.60 max
S 0.03 max
P 0.03 max

- Boilers
- Earth Moving machinery
- Pressure Vessels
- Storage Tanks
- Pipe Lines
- Penstocks

DUROARC - 7018 - 1
Classification :
IS:814-2004 : EB 5626 H3JK
AWS/A.5.1 : E7018-1
In iron powder low hydrogen type electrode producing
A very tough and cuctile, Weld with radiographic metal for
welding heavy and rigid structures subjected to dynamic loading.

C 0.10 max
Mn 1.30-1.60
Si 0.60 max
S 0.03 max
P 0.03 max

- Welding of carbon steels
- Pressure Vessels
- Hardenable low alloy steels
- Equipment subjected to severe stress and dynamic loading
- Heavy and rigid structures

DUROARC -7018 - A1
Classfication :
IS:-1395-82 : E49B-A-I 26 Fe
AWS/A.5.1 : E7018-AI
An low hydrogen iron powder type electrode for weiding of 0.5
Ao steels and other low alloy steels for elevated service
temperatures. Ap to 525 'C Welds are of radiographic quality with 110 recovery.

C 0.10 max
Mn 0.90 max
Si 0.60 max
Mo 0.40-0.65
S 0.03 max
P 0.03 max

- High temperature boilers
- Welding of 0.5 Mo steels
- Pipes and tubes
- Pressure vessesls

WELDING CONSUMABLES

DESCRIPTION	CHEMICAL COMPOSITION	APPLICATIONS

WELDING STAINLESS STEEL ELECTRODES

DUROINOX - 308
Classfication :
IS:-5206-83 : E 19.9 R26
AWS/A5.4 : E 308-16

A rutile type stainless steel electrode for welding of 18Cr-8Ni, grade stainless Steels. Weld metal displays Good Resistance to cracking. corrosion and scaling.

C 0.08 max
Mn 0.50-2.50
Cr 18.0-21.0
Ni 9.00-11.0
Mo 0.75 max
Cu 0.75 max
Si 0.90 max

- Welding of AISI 301, 302, 304 and 308 grades
- Surfacing of 18/8 and clad steels of similar composition.

DUROINOX - 308 L
Classfication :
IS:-5206-83 : E 19.9 LR26
AWS/A5.4 : E 308L-16

A advanced rutile type electrode with an extra low carbon 19Cr-10Ni weld metal. Weld metal has excellent resistance to intergranular corrosion, cracking, oxidation and scaling at elevated temperature upto 800'C.

C 0.04 max
Mn 0.50-2.50
Si 0.90 max
Cr 18.0-21.0
Ni 9.00-11.0
Mo 0.75 max
Cu 0.75 max

- Welding of AISI 301 L, 302L 304 Land 308 L grades
- Normal carbon grades like 302, 304 and 308.
- Welding of clad steels of similar composition.

DUROINOX - 309
Classfication :
IS:-5206-83 : E 23.12 R26
AWS/A5.4 : E 309-16

A rutille type stainless steel electrode Depositing 24Cr-12Ni which has excellent Corrosion and oxidation resistance in Continuous service upto 11 OO'C

C 0.10 max
Mn 0.50-2.50
Si 0.90 max
Cr 22.0-25.0
Ni 12.0-14.0
Mo 0.75 max
Cu 0.75 max

- Welding of AISI 309 type.
- joining stainless steel to low alloy steels or carbon steels.
- Depositing of buffer layer on carbon steel or low alloy steels before deposition of 18/8 type of weld metal.

DUROINOX - 309 L
Classfication :
IS:-5206-83 : E 23.12 L R26
AWS/A5.4 : E 309-16

An extra low carbon electrode to deposit 24Cr-Ni weld metal which has excellent corrosion and oxidation Resistance at elevated temperature upto 11 OO'C

C 0.04 max
Mn 0.50-2.50
Si 0.90 max
Cr 22.0-25.0
Ni 12.0-14.0
Mo 0.75 max
Cu 0.75 max

- Welding of AISI 309 L type.
- joining SS to low alloy steels or carbon steels.
- Deposition of buffer layer on carbon steel of low alloy steels before deposition fo 18/8 type of weld metal.

DUROINOX - 309 Mo
Classfication :
IS:-5206-83 : E 23.12.2 R26
AWS/A5.4 : E 309Mo-16

A rutile type stainless steel electrode to Deposit 24Cr-12Ni-2.5 Mo, which has Excellent corrosion resistance up to 11 OO'C

C 0.10 max
Mn 0.50-2.50
Si 0.90 max
Cr 22.0-25.0
Ni 12.0-14.0
Mo 2.00-3.00
Cu 0.75 max

- joining of 309 Mo, 316 type stainless steels
- joining SS (316 type) to low alloy steels or carbon steels.
- Deposition of buffer layer on carbon steel or low alloy steels before deposition of 316 type of weld metal.

CAST IRON ELECTRODES

DUROCAST- NM CLASSIFICATION:

new economical, non machineable, high Strengths electrode for welding of oil soaked and dirty cast irons, Weld deposit is porosity free deposits with superior crack resistance and has good color match with cast iron.

- Heavy cast iron sections.
- Joining cast iron to steels
- Machine bases, cast iron dies
- oil & chemical soaked castings
- Gear box housings

DUROCAST- FeNi CLASSIFICATION: AWS/A5.15

An electrode with Ferro-Nickel core wire designed to produce a higher matching strength weld metal for joining malleable, nodular and S.G. iron, Weld metal has good ductillity and machineabillity.

C : 0.80-1.50
Si : 0.90 max
Ni : 55.0-60.0
Fe : Balance

- Welding of all types of cast iron.
- Joining of cast iron to steels
- Can be used on high sulphurphosphorous castings.
- Machine bases, transmission housing, gear boxes, engine blocks, pump bodies etc.

DUROCAST-Ni CLASSIFICATION: AWS/A5.15

An electrode with pure Nickel core wire designed for welding cast iron, the cold way. The Nickel deposit does not pickup carbon from the base metal and hence remains ductile soft, machineable.

C : 1.00-2.00
Si : 0.50 max
Ni : 92.0-96.0
Fe : Rem.

- Repair of broken casting.
- Correcting machining errors on Castings.
- Joining cast iron to steel.
- Filling up small cavities.
- Building up a non-corrosive surface nickel on cast iron parts exposed to corrosive liquids.

DUROCAST- Cu CLASSIFICATION: AWS/A5.15

An electrode with Nickel copper alloy wire for welding cast iron without preheating and for obtaining machineable weld which ensures minimum diltion of the weld metal by the base metal. The weld deposit has good colour match with parent metal.

C : 0.35-0.55
Mn : 2.00-3.00
Ni : 60.0-70.0
Cu : 25.0-35.0
Si : 0.75 max

- Joining cast iron to steels.
- Well suited for gears.
- Machining errors on castings.
- Rebuilding worm surfaces.
- Machinery parts, pump bodies etc.

WELDING CONSUMABLES

DESCRIPTION	CHEMICAL COMPOSITION	APPLICATIONS

HARD SURFACING ELECTRODES

DUROHARD -250 An electrode depositing air hardening type of weld metal, which dilplays excellent toughness and abilty to withstand heavy impact. loads and has excellent resistance to rolling and sliding friction. Weld metal is machineable.	Hardenss: 250-300 BHN	•Gear Shafts, Pulleys •Pinion teeth, Couplings •Sugar cane rollers •Rolling stock tyres •Axles, Wheel Rim
DUROHARD -350 A rutile type electrode to deposit air hardening type of weld metal for hard surfacing of carbon and low alloy steels. Weld metal is machineable with carbide tools and is highly resistant to abrasive wear and has a fair degree of toughness.	Hardenss: 350-450 BHN (On 3 Layer deposit)	•Gear, Cams •Sprockerts, Brake Shoes •Punching dies, Steel Casting •Shovels, Pulleys
DUROHARD -550 A semi basic type electrode depositing air hardening type of weld metal having excellent resistace to severe abrasion and moderate impact. The deposit is non-machineable.	Hardenss: 500-500 **BHN** (On Single and Multi Layer	Crusher jaws and hammers Cane and paper cutting knives Shear blades, conveyor parts Heavy earth moving equipments Punches, Dies
DUROHARD -550 LH A basic coated electrode depositing weld metal which is highly resistant to cracking and exhibits excellent resistance to tempering upto 500'C.	Hardenss: 550-650 **BHN** (On Single and Multi Layer)	Crusher jaws Cane cutting knives Conveyor buckets Oil Expeller Worms Mine rails, Crane Wheels
DUROHARD-V A basic coated electrode depositing alloyed cast iron which is hard and extremely resistant to abrasion and metal to metal wear.	Hardenss: 500-500 **BHN** (On 3Layer deposit)	Oil Expeller Worms Concrete mixer blades Muller tyres, Plough shares Excavator teeth, Scraper blades
DUROHARD-Mn A basic coated electrode deposit work Hardenable weld metal having typically 12 Mn. Weld metal is extremely hard and non machineable after work hardening.	Hardenss: As Welded: 170-220 **BHN** Work Hardness 400-500	•Mn Steel Rail crossings •Austenitic Mn Steel Castings •Rock crusher jaws •Crusher hammers •Bucket teeth & Lips

CO2 MIG & TIG WELDING WIRES

AK- Co2 MIG WELDING WIRES

Size (mm) : 0.60, 0.80, 0.90, 1.00, 1.20, 1.40, 1.60, 2.00

Grades : AWS-5,18er 70s6,DIN-SG2 IS-6419-S4 & AWS- ER 90SR OTHER Grades Available.

Co2 Mig Wires

AK- TIG WELDING WIRES

Size (mm) : 1.20, 1.60, 2.00, 2.40,3.15 MM

Grades : AWS ER 70S2 & AWS ER 70S6

Tig Wires

All SIZES CUTTING & GRINDING WHEELS AVAILABLE AK CUT & AK GRINDING

Grinding Wheel

State Of The Art Testing Facilities

A.K.INDUSTRIES

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