

SINCE 1962



WAH NOBEL GROUP OF COMPANIES



A JOINT VENTURE BETWEEN PAKISTAN ORDNANCE FACTORIES
SAAB GROUP, SWEDEN AND AL-MISEHAL, SAUDI ARABIA
(ISO-9001 : ISO-14001 : ISO-45001 CERTIFIED)



SINCE 1962

WAH NOBEL GROUP

Symbol of Quality, Safety & Reliability

**Wah Nobel Develops, Manufactures, Markets
and Maintains a Wide Range of Commercial
Explosives, Accessories and Industrial
Chemicals / Hygiene Products of International
Standards and have foot prints in Energy Sector**



SWEDEN

Saab Group: It is a Swedish aerospace and defense company, founded in 1937. In 2010 the company restructured from fifteen business units into five business areas, Aeronautics, Dynamics, Electronic Defense Systems, Security, Defense Solutions, Support and Services.



PAKISTAN

Pakistan Ordnance Factories: It is the largest defense industrial complex under the ministry of defense production, producing conventional arms & ammo of international standards. Presently POF comprises of 14 ordnance factories and two commercial subsidiaries i.e. Wah Industries Limited & Wah Nobel Group.



SAUDI ARABIA

The Almisehal Co: is a foremost supplier of high technology systems and services to the Kingdom of Saudi Arabia. The group enjoys a reputation for reliability, service delivery and excellent customer support. The group headquarter is in Riyadh, Saudi Arabia.



WAH NOBEL IS A MULTINATIONAL GROUP AND HAS 7 COMPANIES ON ITS ORBIT

Wah Nobel was founded In 1962 as a subsidiary of Pakistan Ordnance Factories through Wah Industries Ltd and operates on commercial frequency and wavelength.

The equity shareholders include Wah Industries Ltd (51.75%) SAAB Group, Sweden (27.23%) (Erstwhile Bofors, Sweden) and Al-Misehal Group, Saudi Arabia (21.02%).



- **Wah Nobel (Pvt) Ltd**
The company was established in 1962. Engaged in production of wide range of Commercial Explosives, Detonators, and Blasting Accessories.



- **Wah Nobel Chemicals Ltd**
Established in 1982. Wah Nobel Chemicals produces an impressive range of high quality Industrial Chemicals and Resins which have diverse applications in numerous industries.



- **Wah Nobel Acetates Ltd**
Wah Nobel Acetates was established in 1998 keeping in mind the company's policy of constant evolution and expansion. The Company caters to various industries.



- **Nobel Energy Ltd**
Nobel Energy Ltd has been setup to realize energy projects in Hydro and Solar Power Projects in 2014.



- **Wah Nobel Baluchistan Explosives Pvt. Ltd**
Wah Nobel Baluchistan Explosives (Pvt) Ltd was set up at Saindak in 1993 to cater for the commercial explosives needs of Baluchistan and specifically the requirement of the Saindak Copper/Gold Project



- **Wah Nobel Gilgit-Baltistan Pvt. Ltd**
Wah Nobel Gilgit - Baltistan (Pvt) Ltd was set up in 2014 at Gilgit and site office at Dasu to meet the Commercial Explosives requirement of upcoming Mega Infrastructural Development Projects related to China Pakistan Economic Corridor (CPEC)



- **Gezhouba-Wah Nobel Blasting Pvt. Ltd**
Wah Nobel has established a Joint Venture Blasting Services Company with Gezhouba Explosives, China for Provision of Blasting Services on Mega Infrastructural Development Projects, Mining and Corporate Sector.



WAH NOBEL (PVT) LTD

The parent company was established in 1962 in collaboration with SAAB Group, Sweden (erstwhile Bofors Sweden). It is a Joint Venture of Pakistan Ordnance Factories through Wah Industries Ltd, SAAB Group and Al-Misehal Group, Saudi Arabia.



The Company produces a wide range of Commercial Explosives and Accessories including Emulsion Explosives, Powder Explosives, Seismic Explosive and initiating devices. The quality of Company's products conform to international standards beside catering local requirement. It is also engaged in exports and earn valuable foreign exchange. Its products are used in oil and gas prospecting, mining, tunneling, quarrying and cement industry etc.



The Company has played a significant role in the completion of mega projects of national importance like Mangla Dam, Tarbela Dam, Karakoram Highway, Motorways etc. The Company at present is engaged at host of Hydro Power Projects, Infrastructural developmental Projects of CPEC, Saindak Copper/Gold Project, Mining Sector and with Oil & Gas Prospecting Companies.



DEDICATED TO QUALITY



PRODUCTION IN PROCESS





WAH NOBEL CHEMICALS LTD

Wah Nobel Chemicals Ltd was established in 1982. The Parent Company i.e Wah Nobel (Pvt) Ltd has 55.23% shares, while the remaining shares are held by various institutions and General Public.

Wah Nobel Chemicals produces an impressive range of high quality Industrial Chemicals and Resins which have diverse applications in numerous industries i.e. textile, leather, agriculture, dying, paint, lacquer, varnish, plywood, chipboard, hardboard, sugar and tableware industries etc.

PRODUCT RANGE

- Formaldehyde 37% & 42%
- Urea Formaldehyde Glue 50% & 60%
- Urea Formaldehyde Concentrate 63% & 85% (UFC63 - UFC85)
- Phenolic Glue and Foundry Resins of Various Grades
- Urea Formaldehyde Moulding Compound (UFMC)
- Glazing Powder
- Disinfectants and Surface Cleaners



DEDICATED ENGINEERS



CHEMICALS PLANT



UFMC PLANT



NEW FORMALDEHYDE PLANT



COMMITTED TO EXCELLENCE



WAH NOBEL ACETATES LTD

Wah Nobel Acetates Ltd was established in 1998. The Company caters for various industries by producing Butyl Acetate and Ethyl / Propyl Acetate and Hand Sanitizer.



The products are used in textile, leather, plastic, rubber, pharmaceutical, food, paints and printing ink industries. The company is engaged in production of Hand Sanitizer on WHO approved formulation and is approved by FDA, USA.



PROUD WORKFORCE



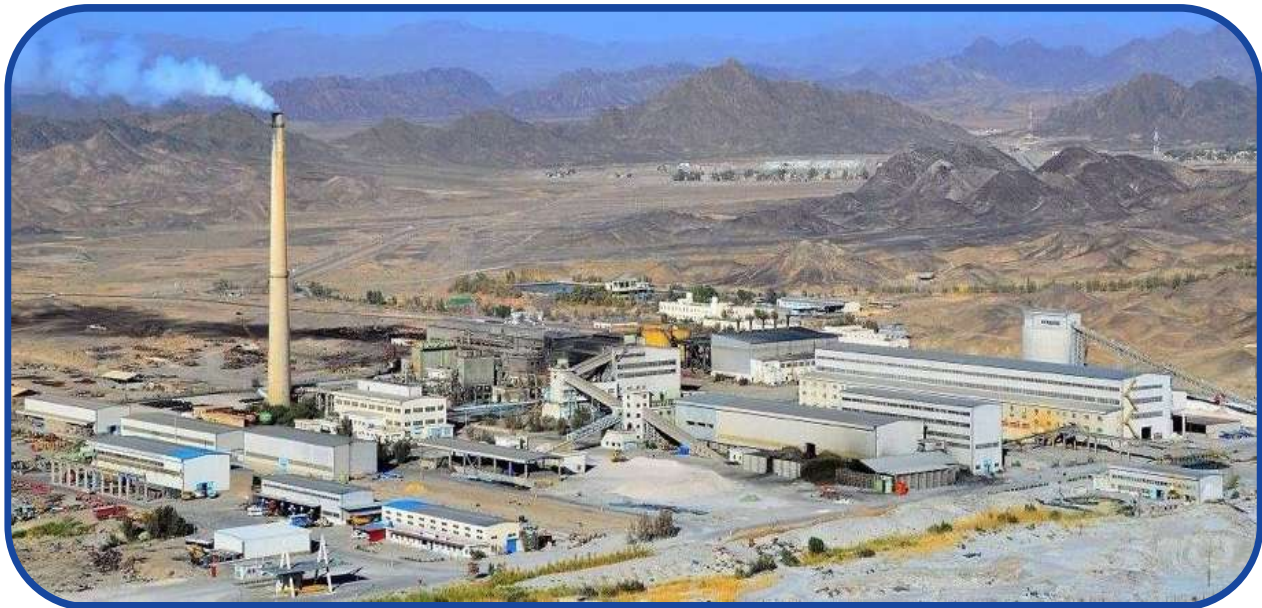


WAH NOBEL BALUCHISTAN EXPLOSIVES (PVT) LTD

Wah Nobel Baluchistan Explosives (Pvt) Ltd was set up at Saindak in 1993 to cater for the Commercial Explosives needs of Baluchistan and more specifically requirement of the Saindak Copper / Gold Mining Project.



The Company is engaged with the Saindak Project since its inception and contributing a great deal in the National Development and also earning valuable Foreign Exchange.



SAINDAK PROJECT



WAH NOBEL GILGIT - BALTISTAN LTD

Wah Nobel Gilgit - Baltistan (Pvt) Ltd was set up in 2014 at Gilgit with site office at Dasu to meet the Commercial Explosives requirement of upcoming Mega Infrastructural Development Projects, related to the China Pakistan Economic Corridor (CPEC).

The Company is geared up to meet the Commercial Explosives needs of infrastructural development projects at the doorstep and shall contribute towards their early completion.



OUR PRODUCT'S PERFORMANCE IN FIELD



NOBEL ENERGY LTD

Nobel Energy Limited represents Energy Division of Wah Nobel Group. It provides one window Solar Energy Solution on turnkey basis i.e. Project Front End Engineering, Designing, Procurement, Installation / Commissioning, Operations and Maintenance.

Nobel Energy Limited is actively pursuing / completed Solar Power Projects and is also focused on development of Hydro Power Projects.



250 KW SOLAR POWER PROJECT AT HATTAR

2 MW SOLAR PROJECT AT WAH NOBEL CHEMICALS



125 KW INSTALLED AT WAH NOBEL HEAD OFFICE



JOINT VENTURE - WAH NOBEL & GEZHOUBA EXPLOSIVE COMPANY, CHINA

Wah Nobel has established a Joint Venture Blasting Services Company with Gezhouba Explosives, China namely Gezhouba – Wah Nobel Blasting (Pvt) Ltd for Provision of Blasting Services on Mega Infrastructural Development Projects, Mining and Corporate Sector.



The Blasting Services Company Provides one window economical, efficient and safe solution to the clients.



Presently Company is Providing Blasting Services on Hydro Power Projects. Company Head Office is in Islamabad.



SHAREHOLDERS AGREEMENT SIGNING CEREMONY



JOINT VENTURE - WAH NOBEL, MODERN CHEMICAL SERVICES (MCS) AND EPC GROUP

Wah Nobel, Modern Chemical Services (MCS), Saudi Arabia and EPC Group, France signed a Joint Venture agreement to develop a civil explosives facility in Pakistan to address mining needs.



Wah Nobel, Modern Chemical Services (MCS), Saudi Arabia and EPC Group, France have entered into a Joint Venture agreement on 12 January, 2023 in Riyadh Kingdom of Saudi Arabia. Signed by Mr. Abdul Aziz F. Barakat Al Hamwah, Vice Chairman & CEO of Modern Chemical Services Company Ltd, KSA and Brig.(R), Shiraz Ullah Choudhry, SI(M), Chief Executive of Wah Nobel Group, Pakistan, this important step was witnessed by Mr. Pascal Lacourie, CEO, Director of Middle East & Asia Pacific, EPC Group and Chairman POF & Wah Nobel Group.



The Joint Venture will allow the transfer of technology and to develop, finance, manufacture and operate a state-of-the-art civil explosives production facility for Manufacturing Bulk ANFO and Bulk Emulsion with Mobile Explosives Manufacturing Units (MEMU) to undertake Mega Mining / infrastructure / Hydropower projects in Pakistan. EPC Group is to be the technical and technological partner of the Joint Venture.





TRAINING FACILITIES

Wah Nobel affords training on modern blasting techniques for economical, efficient, safe handling, storage, usage of commercial / seismic explosives required for various types of rocks and geophysical conditions through seminars / workshops and demonstrations.

Training sessions provide an opportunity to the mining, construction and geophysical engineers / technicians for updating their knowledge and skills on the latest blasting techniques.



TRAINING SESSIONS



FIELD DEMONSATRATION



MARKETING SEMINAR



EVENTS GALLERY





OUR CLIENTAGE

INFRASTRUCTURE SECTOR



DISTRIBUTOR SECTOR

CEMENT SECTOR



OIL AND GAS SECTOR



CHEMICALS SECTOR



COMMERCIAL EXPLOSIVE & ACCESSORIES

WAH NOBEL (PVT) LTD



Commercial Explosives and Accessories

Dynamites

S-3 (SEISMIC EXPLOSIVE)

The severe conditions encountered in oil prospecting demand explosives of a special type. S-3. The seismic explosive manufactured by Wah Nobel is the best answer to such demands. S-3 has excellent water resistance and is capable of withstanding extremely high hydrostatic pressure. It is cartridge in specially designed high density rigid plastic tubes which can be coupled with one another to make the desired length of the column of charge.

Technical Data

Density	1.50-1.55 g/cc
Gas Volume	520 lit./kg
V.O.D (Unconfined)	+5500 m/sec
Sensitivity	Detonator No. 8
Consistency	Gelatinous



WABOX

Wabox is suitable for all types of rock blasting operations. It is manufactured in different grades. These explosives have excellent blasting properties, so highest level of safety in handling and transportation as well as in storage is maintained. They are meant for hard and medium hard rocks and are suitable in dry and wet conditions for quarrying, stripping and underground mining. These explosives give excellent results in underwater blasting as well. All grades of Wabox are manufactured according to the requirements of the customers.

Technical Data

Density	1.40 - 1.45 g/cc
Gas Volume	860 lit./kg
V.O.D (Unconfined)	+5000 m/sec
Sensitivity	Detonator No. 8
Consistency	Gelatinous



WABOFITE

Wabofite is an oxygen-balanced semi-gelatinous dynamite. It is employed for pre-splitting, smooth and controlled blasting. It can also be used as a base charge in medium, hard and soft rocks. In dry and wet bore holes it is also used as a column charge in quarrying and is ideal for tunnel blasting.

Technical Data

Density	0.90-1.00 g/cc
Gas Volume	873 lit./kg
V.O.D (Unconfined)	3000-3500 m/sec
Sensitivity	Detonator No. 8
Consistency	Semi Gelatinous



All explosives are available in cartridge (paper/polyethylene) of dimensions 25 mm x 200 mm, 32 mm x 200 mm, 50 mm x 500 mm, 63 mm x 500 mm & 75 mm x 500 mm. S-3 is also available in hard plastic tubes of 57 mm x 410 mm.



Commercial Explosives and Accessories

Powder Explosives

WABONITE

Wabonite is a low-density explosive of relatively high weight strength, well suited mainly as column charge in all types of rocks where conditions are moderately dry. It is a non-cap sensitive explosive and requires a primer for initiation. Wabonite has excellent storage properties and offers maximum safety in handling and transportation.

Technical Data

Density	0.90g/cc - 0.95 g/cc
Gas Volume	918 lit./kg
V.O.D (Unconfined)	3000 m/sec
Sensitivity	Primer Required
Consistency	Powder



WAPRIL (ANFO)

Wapril is a mixture of Ammonium Nitrate and fuel oil having a special sensitizer designed to give optimum blasting performance. Wapril is a low cost explosive which is extensively employed as column charge in all types of rock blasting operations and is particularly used as main charge (with primer) in large diameter hole blasing

Technical Data

Density	0.80g/cc--0.85gcc
Gas Volume	988 lit/kg
V.O.D (unconfined)	2500 m/sec
Sensitivity	Primer required
Consistency	Powder

Powder explosives are available in polyethylene tubes of 50mm x 500mm, 63mm x 500mm & 75mm x 500mm. It is also available in 25 Kg Polyprophylene lined bags.





Commercial Explosives and Accessories

Emulsion Explosives

EMULITE - 150 / EMULITE - 150 (G)

This cap sensitive explosive has plastic consistency and is very suitable for achieving high loading density. It has excellent blasting properties. It can be used as bottom charge for any kind of blasting. Due to its consistency and high water resistance, it can be confidently employed for deep underwater blasting.

Technical Data

	EMULITE-150	EMULITE-150 (G)
Density	1.25 g/cc	1.25 g/cc
Gas Volume	830 lit./kg	860 lit./kg
V.O.D (Unconfined)	5000-5500 m/sec	4600-5000 m/sec
Sensitivity	Detonator No. 8	Detonator No.8
Consistency	Emulsion	Emulsion



EMULITE-100 / 100 (G)

Suitable for pre-splitting, smooth and controlled blasting. In dry and wet bore holes it is also used as a column charge and is ideally suited for tunnel blasting.

Technical Data

	Emulite-100	Emulite-100 (G)
Density	1.20 g/cc	1.20 g/cc
Gas Volume	900 Lit. /kg	932 lit./kg
V.O.D (unconfined)	5000-5500 m/sec	4500-5000 m/sec
Sensitivity	Detonator No.8	Detonator No.8
Consistency	Emulsion	Emulsion



SEISMIC EMULITE (ES-3)

Seismic emulsion explosives meet the highest standard of safety required in rough and tough conditions of seismic prospects. Seismic Emulite has excellent storage properties especially for high temperature and humid climate.

Technical Data

Density	1.20 – 1.24 g/cc
Volume	796 lit./kg
V.O.D (unconfined)	> 5400 m/sec
Sensitivity	Detonator No. 8
Consistency	Emulsion



PERMISSIBLE EMULITE (E-408)

Emulite-408 is of special composition for use in gassy coal mines. It produces short lived detonation flames and prevents firedamp or coal dust explosion in underground coal mines. This explosive can be employed in underground mining of other ores as well.

Technical Data

	E-408
Density	1.12-1.15 g/cc
Gas Volume	820 lit./kg
V.O.D (unconfined)	4400 m/sec
Sensitivity	Detonator No.8
Consistency	Emulsion



All explosive are available in cartridges (paper / polyethylene) of dimensions 25 mm x 200 mm, 32 mm x 200 mm, 50 mm, 63 mm x 500 mm & 75 mm x 500 mm.



Commercial Explosives and Accessories

Blasting Accessories

WABOCORD (DETONATING CORD)

Wabocord consists of a core of high explosive contained in polythene and wrapped in various layers of cotton/jute yarn. The detonating cord is then coated with PVC, giving it a high tensile strength and making it water proof. The structure of Wabocord assures its efficient field performance as it is unaffected by both heat and cold within a wide range of temperatures i.e. from -60°C to 30°C .

Technical Data

Velocity of detonation	6000-7000 m/sec
Water resistance	Water proof, can withstand pressure of 25 meter water head for 48 hours
Explosive grammage	10 ± 1 g/m
Packing:	4 reels of 250 meters each, packed in cardboard box. Also available in 20 and 40 g/m



SAFETY FUSE

Safety fuse consists of a central core of specially formulated black powder with jute and cotton covering. Water proofing is done by bitumen, wax as well as PVC. It is designed to propagate flame to the plain detonator within specified time limits.

Technical Data

Burning Time	B110-160 sec/m in dry conditions
Coating	PVC/ Bitumen
Packing:	4 reels of 250 meters each, packed in a cardboard box



MS/HS ELECTRIC DELAY DETONATORS

Milli second and half second delay detonators are meant to effect delayed blasting action in multi-row bench blasting and tunneling. This action greatly improves blasting results as better fragmentation and ground vibration control is achieved. MS delays are used only for surface blasting while in underground blasting, a combination of both MS and HS detonators is employed.

MS Delay Electric Detonators

Period	Delay Time	Internal	Standard leg wise
1-20	25-500 ms	25 ms	3.5 mtr

HS Delay Electric Detonators

Period	Delay Time	Internal	Standard leg wise
1-10	500-5000 ms	500 ms	3.5 mtr





Commercial Explosives and Accessories

Blasting Accessories

DETONATOR NO. 8 (PLAIN)

Standard type Plain Detonator No. 8 consists of a base charge of high explosive and a primer charge of an initiating explosive pressed into an Aluminum tube. It is used with safety fuse.

Technical Data

Length of Aluminium casing	38 ± 1 mm (Nominal)
Outer Dia	7 ± 0.1 mm
Use	In combination with safety fuse



Packing

100 Dets. are packed in a smaller card box. 50 small boxes are packed in a master cardboard box containing a total of 5000 detonators.

ELECTRIC DETONATOR NO. 8

Electrical energy is required to initiate electric detonators. The advantage of electric firing over firing with safety fuse and plain detonator is that several shots can be connected up and fired simultaneously with much greater control over the blast.

Technical Data

Length of Aluminum casing	45 ± 0.6 mm
Standard Leg Wire	3 mtr.
Outer Dia	7 ± 0.1 mm



Packing

10 Dets. are packed in a smaller card box. 50 small boxes are packed in a master cardboard box containing a total of 500 detonators.

SEISMIC DETONATORS

Seismic Detonators are specially formulated, high density, high energy, detonator sensitive seismic explosive designed exclusively to meet the rigid requirements and environmental extremes associated with geophysical exploration. Offering moderate velocity and extraordinarily low gas production, they improved seismic energy across usable bandwidth for superior final data as well as improved signal-tonoise ratios.

Technical Data

Material	Aluminum
Length	45 - 45.7 mm
Diameter	7.0 - 7.2 mm
wire length	4.5, 12, 24 and 30 meters





Commercial Explosives and Accessories

Blasting Accessories

SHOCKTUBE (LEHER)

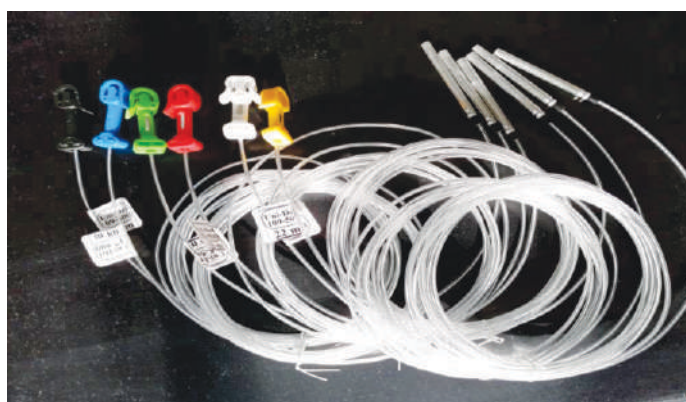
Shocktube (Leher) is the trade name of latest multiple layer technology "Non-Electric Initiation System"

Advantages

No stray current or radio transmission hazards
No side initiation
No noise problem
Simple and rational connections

Varieties of Shocktube (Leher) Ignition System

Shocktube (Leher) GD/MS
Shocktube (Leher) UNIDET
Shocktube (Leher) Instantaneous



SHOCKTUBE (LEHER) GD/MS

Period No	Delay Time (ms)	Interval (ms)	Standard Tube Length (mt.)
1-20	25-500	25	2-35 Meter (Customized Length)

SHOCKTUBE (LEHER) UNIDET (COMBINATION OF INHOLE & SURFACE DELAY DETONATORS)_

Description	In-Hole	Surface Delay Detonators						
Code	MS 500 - MS 1000	SD-0	SD-9	SD-17	SD-25	SD-42	SD-68	SD-104
Delay Time (ms)	500-1000 (customized)	0	9	17	25	42	68	104
Connector Colour		Yellow	Blue	Black	Green	Red	White	Orange

SHOCKTUBE (LEHER) INSTANTANEOUS

For specific operation, Shocktube (Leher) Instantaneous are also available in various tubes lengths.

Packing

Detonators are vacuum packed in PE bags.
05 Nos dets are vacuum packed in PE bags.
10 PE bags are packed in a cardboard box.





Commercial Explosives and Accessories

Blasting Accessories

DELAY DETONATORS

In-Hole Delay Detonator

After extensive Research & Development and continuous efforts, Wah Nobel has recently developed a wide range of millisecond delay detonators with specialty number from 1-20 available with shocktube length from 2-35m and flexible timings from 25ms to 500ms.



Surface Delay Detonators

Wah Nobel is proudly introducing a unique delay detonator product, the Surface Delay Detonators for the first time in Pakistan.

Surface Delay Detonators are available as under in tube length 3-8m.

Surface Delay 25ms (SD-25)

Surface Delay 42ms (SD-42)

Surface Delay 64ms (SD-64)



Uni-Det

This product of Wah Nobel is a unique combination of Surface Delay Detonators and In-Hole Delay Detonators which reduced the cost of blasting and mining operations.



J.Hook

Easy, Quick & Fast Substitute of Conventional Knotting between Detonating Cord and Shock Tube.



Detcord Bunch Connector (DBC)

DBC has been developed according to international standard design which provides simultaneous and reliable initiation to a bundle of 20 or more shock tubes.



Delay Relay

It is a product of choice for those customers who need delay on surface between any two or more rows of blast holes using Detonating Cord.



INDUSTRIAL CHEMICALS

WAH NOBEL CHEMICALS LTD



Industrial Chemicals

Polymers

FORMALDEHYDE - FA 37%

Applications

General purpose formalin is suitable for Tanneries, Poultry/Sugar Industries and for manufacturing Urea and Phenolic Glues.

Specification

Grade	Commercial
Appearance	Water like
Formaldehyde content*	36.8 - 38.6 % (w/w)
Methanol content*	2.5 - 10 % (w/w)
Density	1.032-1.11 g/cc at 25 °C
Acidity as Formic Acid	0.005 - 0.03 % (w/w)
Ash content (max.)	2 % by wt.



Packing: 30 liters is packed in plastic can, 200 liters in GI drum while bulk quantities are packed in SS tanker.

*** Formaldehyde concentrations 36.5 – 38.5 % with 3 – 11 % Methanol contents are produced on request.**

UREA FORMALDEHYDE CONCENTRATE 85% - UFC 85

Applications

Used as anti Urea (granular) manufacturing process. Also suitable for manufacturing U.F Glue.

Specifications

Appearance	Water like
Viscosity	250 – 600 cps at 25°C
Density	1.310 – 1.330 g/cc at 25°C
pH	8.0 – 9.0 at 25°C
Formaldehyde	60± 2 % by weight
Urea	25± 1 % by weight
Water	15± 1.0 % by weight
Shelf life	6 months at 25°C



Packing: 30 liters in plastic can and bulk quantities in SS tanker.

UREA FORMALDEHYDE CONCENTRATE 63% - UFC 63

Applications

Used in the manufacturing of Moulding Compounds. Also suitable for manufacturing U.F. Glue.

Specifications

Appearance	Waterlike
Viscosity	10– 20 cps at 25°C
Density	1.200– 1.250 g/cc at 25°C
pH	7.0- 8.0 at 25°C
Formaldehyde	45± 1 % by weight
Urea	18 ± 1 % by weight
Water	37± 1.0 % by weight
Shelf life	6 months at 25°C



Packing: 30 liters packed in plastic can while bulk quantities are packed in SS tanker.



Industrial Chemicals

Polymers

GLAZING POWDER

Application

Used for coating of Dish Ware

Specifications

Appearance	Powder
Moulding Temp	150±10 C
Moisture	2.0 - 4.0 %
Density	0.3 - 0.5 g/cc
Curing Time	30-40 s

Packing: 25 kg in polypropylene bag.

PHENOL FORMALDEHYDE (RESOLE) – KN 300

Application

Suitable for the production of water proof Plywood.

Specifications

Appearance	Maroon Red liquid
Viscosity	200 – 400 cps at 25°C
Density	1.10– 1.2 g/cc at 25°C
ph	12.0– 13.5 at 25°C
Solid Content	43 ± 2 % by wt. Two months at 25°C

Packing: 30 liters in plastic can, 200 liters in steel drum & bulk quantities in MS tanker.

PHENOL FORMALDEHYDE (RESOLE) – KN 900

Application

Suitable for coating of abrasive in the manufacturing of Cutting / Grinding Disc.

Specifications

Grade	Abrasive binder
Viscosity	200 – 400 cps at 25°C
Density	1.19– 1.23 g/cc at 25°C
ph	8.0 – 8.5 at 25°C
Solid Content	70 - 80 % by wt.
Shelf life	Two months at 25°C

Packing: 30 liters in plastic can.

PHENOL FORMALDEHYDE (RESOLE) – KN 750

Application

Used as Cold-setting foundry sand (Silica/Quartz) binder for the production of Moulds and Cores.

Specifications

Grade	Foundry
Viscosity	200 - 400 cps at 25°C
Density	1.17– 1.22 g/cc at 25°C
pH	12.0- 14 at 25°C
Solid Contents	50 ± 2 % by wt.

Packing: 30 liters packed in plastic can & 200 liters in steel drum.



Industrial Chemicals

Polymers

UREA FORMALDEHYDE MOULDING COMPOUND (UFMC)

Applications

Used in the manufacturing of Dish Ware and electrical accessories.

Specifications

Appearance	Powder
Moulding Temp	150± 10 °C
Moisture contents	2.0– 5.0 %
Bulk Density	0.47– 0.7 g/cc
Grain size	Passed through 60 mesh
Storage Stability	12 week at 25 °C

Packing: 25 kg in polypropylene bag available in White, Mango & Off-white colours.

PHENOLIC RESIN (NOVOLAC) – KF 800

Application

Suitable for coating silica sand in the hot sand coating process.

Specifications

Appearance	Granules
Softening point	90 ± 10 °C
Moisture (max.)	1.0 % by wt.
Ash	1.0 ± 0.2 % by wt.
Shelf life	Six months at 25°C

Packing: 50 kg in polypropylene bag.

FOUNDRI RESIN (NOVOLAC) – FN 700

Applications

Used in the manufacturing of tundish board and ingot mould hot tops and in corning shell moulding process.

Specifications

Appearance	Powder (85% 200 mesh)
Nitrogen	3.8– 4.0 % by wt
Moisture contents	0.5– 0.9 %
Ash contents	0.8– 1.2 % at 950°C
Shelf life	One year at 25°C

Packing: 50 kg in polypropylene bag.

PHENOLIC RESIN (NOVOLAC) – FN 600

Applications

Used in the manufacturing of Cutting/Grinding disc.

Specifications

Appearance	Powder (90% 250 mesh)
Softening point	100 ± 10°C
Moisture content	0.5– 0.9°C
Ash content	0.8– 1.2 % at 950°C
Shelf life	Six months at 25°C

Packing: 25 kg are packed in a cardboard box.



Industrial Chemicals

Polymers

UREA FORMALDEHYDE – KR 60

Application

Suitable for the production of ordinary Plywood/Chipboard.

Specifications

Appearance	Opaque
Viscosity	200 – 300 cps at 25°C
Density	1.26–1.29 g/cc at 25°C
pH	8.0 – 8.5 at 25°C
Free formaldehyde	Below 1 %
Gel. Time	30– 60 sec at 100°C
Solid content	60± 1 %
Shelf life	Two months at 25°C

Packing: 30 liters is packed in plastic can and 200 liters in steel drum while bulk quantities in MS tanker.

UREA FORMALDEHYDE – KR 50

Application

Suitable for the production of Chipboard.

Specifications

Appearance	Opaque
Viscosity	40– 80 cps at 25°C
Density	1.200– 1.250 g/cc at 25°C
pH	8.0– 8.5 at 25°C
Free formaldehyde	Below 1 %
Gel. Time	40– 70 sec at 100°C
Solid content	50± 1 %
Shelf life	Two months at 25°C

Packing: 30 liters is packed in plastic can and 200 liters in steel drum while bulk quantities are in MS tanker.



Wah Nobel Acetates

Acetates

ETHYL ACETATE

Ethyl Acetate is a stable, colourless and inflammable liquid with a pleasant odour. It is used widely in formulating gravour, printing inks, adhesives and lacquers. It is used extensively as a cellulose nitrate solvent in the Manufacturing of products such as artificial and patent leathers, inks, cement, photographic films and linoleum. Ethyl Acetate is also used in the formulation of products like candy glaze, cleaning fluids, flavours and spirit varnishes.

Technical Data

Content	>99.5% (weight %)
Density	0.878 – 0.883 gm/ml
Moisture	0.20%
Acidity (as CH ₃ COOH)	0.005%
Evaporation residue	0.005%

Packing: 180 kg in steel drums and bulk quantities in tankers.

BUTYL ACETATE

Butyl Acetate is a colourless inflammable liquid with a pleasant and fruity odour. It is widely used in cellulose nitrate lacquers. It is also an active solvent for cellulose acetate batryle, ethyl cellulose chlorinated rubber, polystyrene, methaerylate resins, natural gums and paints. This ester is also used as a solvent in the preparation of artificial leather, textile and plastics and as an extraction solvent in processing various oils and pharmaceuticals.

Technical Data

Content	> 99.5% (weight %)
Density	0.897-0.902 gm/ml
Moisture	≤ 0.20%
Acidity (as CH ₃ COOH)	≤ 0.005 %
Evaporation residue	≤ 0.005%

Packing: 180 kg in steel drums and bulk quantities in tankers.

NORMAL PROPYL ACETATE

Normal Propyl Acetate is a common solvent. This clear, colorless liquid is known by its characteristic odour of pears. Due to this fact, it is commonly used as a flavoring additive.

**FAST MOVING CONSUMER
GOODS (FMCG) - FAMILY
(HYGIENE PRODUCTS)**



Fast Moving Consumer Goods (FMCG) - Products List

NOBEL HAND SANITIZER (GEL / LIQUID)

(Ethanol Based)

- WHO Approved Formulation
- Kills 99.9% Germs Instantly
- No Skin Irritancy

Ingredients:

Ethanol 80%, Vitamin E, Glycerol, Hydrogen Peroxide & Distilled Water

Packing:

120ml, 250ml, 500ml, 1L, 5L & 30L



NOBEL DISINFECTANT SPRAY

(Hydrogen Peroxide / Chlorine Based)

- For Disinfecting Offices, Rooms, Walkways, Surfaces etc
- No Chemicals Fumes
- Alcohol / Bleach Free

Ingredients:

Hydrogen Peroxide / Chlorine, Stabilizer & Distilled Water

Packing:

5L, 30L



NOBEL FLOOR CLEANER

(Sodium Hydroxide Based)

- For Disinfecting Floors / Surfaces
- Keeps Floor Clean & Shine
- Long Lasting Fragrance

Ingredients:

Sodium Hydroxide, Hypochlorite, Surfactant, Fragrance & Distilled Water

Packing:

250ml, 500ml, 750ml



NOBEL TOILET CLEANER

(Hydrochloric Acid Based)

- For Disinfecting Toilet Bowls
- Keeps Toilet Clean & Shine
- Long Lasting Fragrance

Ingredients:

Hydrochloric Acid, Shining Agent, Fragrance & Distilled Water

Packing:

250ml, 500ml, 1L



NOBEL PHENYL

(Removes Dirt & Germs across Different Surfaces)

- General Purpose Surface Cleaner
- Keeps Floor Sparkling Clean
- Long Lasting Fragrance

Ingredients:

Turkey Red Oil, Alfox, Pine Oil & Distilled Water

Packing:

1L, 3L



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