

Transport industry

Cleaning and disinfection

Experience a world of effective, economical and reliable cleaning and disinfection agents - developed and produced by Novadan.



t Novadan, we work with concepts which give Ayou a complete solution for all cleaning and disinfection tasks in the transport sector.

You can get a complete cleaning concept for the following areas:

- Trailer washing
- · Refrigerated vans
- Busses
- Road tankers
- Trains
- Passenger cars
- Garages/workshops

PRODUCT DEVELOPMENT

We develop our products in close cooperation with our customers and suppliers with the objective of being a total supplier with concepts and solutions in the transport segment. We have a common task – that is to solve the challenges arising at the washing locations, garages and more. For that reason, we have a close dialogue during the continuous development of our product portfolio.

Our concepts are tested by our internal R&D department as well as on the market by you who actually deal with the tasks on a daily basis.

Our loyal and satisfied customers are your guarantee that the concepts work!

CONCEPTS

Concepts are more than just high quality products.

Concepts are also much focus on environmentally correct products, which do not contain harmful and illegal substances.

It is training/courses, visual instructions in the choice of products and the use of these products. You are guided in optimization of your washing system in order to ensure high quality and a cost-effective washing process. It is online access to Safety Data Sheets and Product Information as well as guidance on legislation, environment etc. Furthermore, you get products with clear pH-labeling and instructions -whether it is cans, drums or IBCs.

YOUR SAFE CHOICE

By choosing Novadans concepts for the transport sector, you are ensured a partner who - through many years of experience on the market and close partnership with the market players - has developed some of the best and most competitive concepts for the industry.

See the table of contents in the back of the brochure.

COMPLETE CONCEPT FOR THE SOLUTION OF ANY TASK.

TP 89714

目前の国家

Novadan – your guarantee for a good result

ALLS AST

NOTRA ALKA 20

is used for n washing of trucks. Ideal summer product. Economical. pH-value 12.5. Without A&B substances.

Item number: 25022 (20 L) 56262 (200 L) 25049 (1000 L) 25021 (20 L) / (fragrance) 56260 (200 L) / (fragrance) 25048 (1000 L) / (fragrance)

JOTRA ALKA 40

ll-round degrea used for degreasing of trucks. Works broadly – summer and winter. pH-value 13. Without A&B substances.

Item number: 25023 (20 kg) 56256 (210 kg) 25047 (1060 kg)

NOTRA ALKA 8

s an effective degr for washing of trucks. Ideal in the winter and for very dirty trucks – can be used in combination with Notra Alka Booster. Does not need subsequent manpower. pH-value 12.5. Without A&B substances. Item number: 25107 (20 kg)

25106 (200 kg)

25110 (1000 kg)

NOTRA MICRO

(petroleum) which is effective for truck washing and more. Fast separating. Does not corrode aluminium

Item number: 25070 (20 L) 25071 (200 L)



INSECT REMOVER

is used manually or in the washing machine for effective removal of insects and exhaust dirt. pH-value 11.5. Without A&B substances.

Item number 25008 (20 L)

OTRA ALKA-OOSTER

shing of very dirty winter cars. Booster is added as needed. pH-value >13. Without A&B

Item number: 25108 (20 kg)

with NOTRA ALKA 80 for wasubstances.

25109 (200 kg)

se Wax is a rinse v which is used at the end. Without A&B substances. pH-value 2,7.

Item number: 12736 (20 L)

NOTRA SHINE Shine is used at the end and leaves the truck shining. Without A&B substances.

Item number: 25116 (20 L)

NOBIT FAST An effective petroleum based agent for removal of tar, bitumen, oil and the like.

Item number: 50795 (5 L)

50796 (20 L) 50797 (210 L)

NOTRA ACID ALU

Is used for cleaning of alu minium, which needs gentle cleaning. Leaves a shining surface. pH-value 2. Without A&B substances.

Item number: 25027 (20 L) 56246 (200 L)

AUTO is used for washing of th driver's cab + interior doors (4%). pH-neutral. Without wax. Without A&B substances.

Item number 25000 (20 L) 56228 (200 L) 25045 (1000 L)

Trailer washing – effective cleaning of all surfaces



WASHING INSTRUCTIONS:

Lay out the washing product as foam all over the truck - start from the bottom.

If the wheel rims, side boxes and chassis are very dirty, wash manually with a brush. Never wash on a hot rim!

The entire undercarriage/chassis is high pressure jetted with clean water/recycled water.

Summer

All of our products for truck washing can be used in the summer but if you are looking for an economical alternative, Notra Alka 20 is a good choice.

Winter

All of our products for truck washing can be used in the winter, but if you need a product for very dirty trucks, Notra Alka 80 in combination with Notra Alka Booster is very effective.



tablet or the powder is dissolved in water. Documented disinfection effect. Not corrosive when dosed correctly. pH-value (diluted) app.: 3.

Item number: 12366 (24 gram - 40 pcs) 12367 (24gram - 250 pcs.)

Is a broad-spectrum foan disinfectant. Foaming. Quickacting (contact time 2 min). Contains peracetic acid. Inhibited against aluminium. pH-value 1.6. Without A&B substances.

Item number: 12262 (10 kg) 12225 (20 kg) 12226 (212 kg)

Is used for interior wash Disinfectant after washin Leaves a light scent of chlorine. Economical. pH-value 13.6. Without A&B substances.

Item number: 12412 (21 kg) 12172 (220 kg) 12505 (750 kg) 5051 (1100 kg)

of refrigerated trailers. Used in the food sector. Effectively removes fat and oil as well as stearate deposits and wax in the food industry. pH-value 12. Without A&B substances.

Item number 12645 (20 kg) 12646 (200 kg) 12647 (775 kg)

Effective against bacteria, yeast, mould and vira. Stable foam with good adhesive power. pH-value (conc.) app.: 6,2. Without A&B substances.

Item number 41877 (5 L) 12436 (19 kg) 59111 (200 kg)

WASHING OF REFRIGERATED VANS

residues of the disinfectant.

WASHING INSTRUCTIONS:

- Rinse with cold water

Refrigerated vans – safe cleaning and disinfection



A refrigerated van should be cleaned thoroughly before transport of food. It is essential that the food is not contaminated.

Disinfection is necessary in order to kill micro organisms (salmonella or other bacteria, mould fungi, yeast fungi and the like).

Disinfection is only effective after a thorough cleaning of the refrigerated van. After this, the refrigerated van is to be rinsed with clean water in order to remove

Disinfectants are to be kept separate from food.

Remove meat and fat deposits (with a scraper)

Apply foam on walls, ceilings and floors with Foam 136 or Foam 119 in a 4-5% solution with 40°C hot water (also for truck traces at the bottom.)

Let the product work for minimum 2 min

Rinse/wash thoroughly with clean water

Lay out the diluted disinfectant with a disinfectant spray

Let the disinfectant work for minimum 5 min

Rinse all direct and indirect surfaces with clean water after disinfection.

Swab all surfaces in order to avoid condensation.





CLEANING OF BUSSES

Washing quality and speed are two parameters which need to come together when it comes to bus washing.

At Novadan, we have developed a concept for bus washing which exactly ensures high quality and effective washing.

With Novadan's complete portfolio for bus washing, you can obtain great advantages. With the concepts come detailed instructions for the choice of products and washing guidance which make your employees effective.

Your employees are offered training in optimized cleaning of busses.

Also when it comes to removal of graffiti on the inside and outside of busses, Novadan has an effective concept. Ask one of our consultants.



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washing machines for removal of insects and exhaust dirt. pH-value 11.5. Without A&B substances.

Item number: 25008 (20 L)

AUTO SHAMPOO is used for bus washing in the summer. Without wax. pH-neutral. Without A&B

Item number: 25000 (20 L) 56228 (200 L) 25045 (1000 L)

substances

NOTRA ALKA 20 is used for bus washing in the winter. pH-value 12.5.

Without A&B substances. Item number:

25022 (20 L) 56262 (200 L) 25049 (1000 L) NOTRA SHINE

Shine is used at the end and leaves the bus shining. Without A&B substances.

Item number: 25116 (20L)

Item number: 25107 (20 kg) 25106 (200 kg) 25110 (1000 kg)

Bus washing – complete concept for all cleaning tasks



NOTRA ALKA 80

Is used for washing of air intake for filters. pH-value 12.5. Without A&B substances.







CLEANING OF SMOOTH CEILINGS:

Wash with Uni F 322 in a dosing of ½ dl for 8 L water. Less than 1 %.

CLEANING OF DISTRIBUTION BOARDS + CEILING PANELS:

Wash with Uni F 322 in a dosing of ½ dl for 8 L water. Less than 1 %.

Windows, mirrors, steering wheels, instrument boards: Wipe with a wrung Microfiber cloth.

Wash windows with Foam 42 with washing equipment.

THOROUGH CLEANING OF FLOORS AND STAIRCASES: Start by sweeping staircases and floors.

Wash floors and staircases with fladmop 40cm.

Start by removing polish with Emulsifier Plus and wash with Notra Alka 80 (2%) afterwards.

Apply new polish as required: 2-3 layers of polish in the aisle and 1 layer below the seats with minimopgarn. Wipe between each application of polish.



than 1%.



INTERIOR CLEANING OF BUSSES

Novadan also offers a portfolio of interior washing of busses. The portfolio is developed to reduce the water and chemistry consumption and gives the customer an optimum result.

The concept is for the professional user and as a part of Novadan's concept for bus washing - training, guidelines and application of products are included. The products are gentle to use.

With Novadan's portfolio for busses, you easily and effectively obtain clean busses which give the passengers and drivers a good experience.

Interior bus washing – to the benefit of the passengers





WASHING OF LUGGAGE LOCKERS Wash with fladmop. (retains water so dripping is avoided).

Wash with **Uni F 322** in a dosing of ½ dl for 8 L water. Less

For fat stains on windows, use Foam 42.

WASHING OF FLOORS AND STAIRCASES:

Start by sweeping staircases and floors. Wash floors and staircases with fladmop.

ATTENTION: Wash the mops and cloths every day at min 60°C. Never use fabric softener.

Use Tex 354 or Tex Powder 150.

CIP ALKA 60

Is used in the food ir ankers and more. Good dirt dissolving and fat emulsifying properties. pH-value >13. Without A&B substances.

Item number: 12760 (28 kg) 12761 (275 kg) 12762 (1300 kg)

OXIDAN EXTRA

Is a broad-spectrum, ac environmentally friendly and quick-acting disinfectant. Contains peracetic acid. pH-value 1. Without A&B substances

Item number: 12499 (22 kg) 12314 (210 kg) 12329 (1110 kg)

NOTRA ALKA 40

which is used for degreasing of road tankers. pH-value 13. Without A&B substances.

Item number: 25023 (20 kg) 56256 (210 kg) 25047 (1060 kg)

NOTRA ACH

substances.

Item number: 25113 (20L)

Is used for removal of rust of

road tankers. Without A&B

OTRA ACID ALI Is used for daily cleaning of

aluminium which needs gentle

surface. pH-value 2. Without

cleaning. Leaves a shining

A&B substances.

Item number: 25027 (20 L)

56246 (200 L)

Item number: 25000 (20 L) 56228 (200 L) 25045 (1000 L)

Novadan's many years of expert knowledge of cleaning and disinfection in the food industry gives you great advantages in connection with interior washing of road tankers. All products meet the requirements from the Danish Veterinary and Food Administration.

Do you know the problem with rust? Many people experience this as a problem in connection with cleaning of road tankers. Novadan has the agent which can cure this.

Washing of road tankers – great expert knowledge from the food industry



You are offered a complete portfolio and training program. Novadan's agents and guidance ensure you the best conditions for living up to the requirements in connection with cleaning of road tankers for transport of food.



WASHING OF ROAD TANKERS

Road tankers need exterior as well as interior high quality washing. A clean and shining road tanker reflects dedication with the cleaning and increases the trust in the interior washing.

TRAIN WASHING

When you wash trains, there are 2 washing processes which need to be taken into account: Alkaline washing (degreasing) and acidic washing (de-acidification).

The washing machine can be a drive-through train washing plant where the machine stands still and the train drives slowly through during the washing process – or the machine can be a roll over machine, where the train stands still and the machine runs back and forth as a traditional washing machine. Both machines can be equipped with an undercarriage wash, where the washing is alkaline as well as acidic. (The undercarriage is typically washed if the train is to be repaired or inspected.)

Alkaline washing (Novis 135) is used for washing off dirt, fat and oil.

Notra Acid 80 is used to wash off rust (iron oxides) and silicon. Rust comes from rails, brakes (iron against iron). Silicon comes from the sand which is thrown on the rails when the train has braking or startup problems.

It is important that you always wash alkaline first and acidic at the end. This is due to the fact that the iron oxides hit the train with high temperatures, burns through dirt and fat and burns into the paintwork. This is also the case when it comes to undercarriage washing.



GRAFFITI

Cleaning of trains also includes removal of graffiti. Novadan has a complete portfolio for effective removal of graffiti as well as coating for a more effective removal of future graffiti.

Better and better products are developed for removal of graffiti, but at the same time, there is also a similar development of the used graffiti products. This applies to both types, composition and properties – in order to make these better able to penetrate possible surface treatments (anti-graffiti treatments), and to make the graffiti difficult to remove again.

Some used types: Spray paint, oil based paint, tectyle, ink, leather dye, pencils and more.

NOVIS 105

Special agent for removal of paint and graffiti on trains and busses. Removes most types of graffiti fast and effectively. Does not corrode aluminium. Economical. pH-value 7.

Item number: 41414 (5 kg)

NOVIS TECTYLE Special agent for removal of tectyle-based graffiti on trains

tectyle-based graffiti on trains and busses. Effectively dissolves tectyle, silver and gold colour. Use concentrated.

Item number: 41420 (5 L)

NOVIS 7 Cleaning fluid for cleaning o paint, wax, glue and the like. Effectively dissolves paint, wax and glue.

Item number: 41691 (20 kg) 41693 (200 kg)

NOVIS 135

Novis 135 is used for cleaning of trains as well as removal of shadows from graffiti. Does not corrode aluminium. pH-value 13.

Item number: 12727 (5 kg) 57763 (21 kg) 12730 (210 kg) 12737 (1050 kg)

Train washing – cleaning on time





Our concept for cleaning of garages is broad and here, you find a portfolio for cleaning of garage floors, ceilings, material washing machines, removal/ absorption of oil, fat, acids and more, textile washing powder, hand cleaner/ lotion, sanitary agents etc.

NOTRA WS ALKA 20 REUMEX HÅNDRENS PLUS s used in floor washin Is an effective hand cleanser gel for difficult dirt such as tar, paint, glue, lacquer and more. Well suited for garages. substances. Item number: 56359 (4,5 L) Item number: 56372 (600 ml) 25033 (20 L) 25077 (200 L) DREUMEX NOTRA WS ALKA 80 HÅNDRENS Is a solvent free paste for medium and difficult dirt such as lubricants, diesel, brake dust, cement, rust and more. Item number 56357 (4,2 L) 56366 Pump Item number: 56364 Dispenser wall 25038 (20 L) 56277 (200 L) **MIKO SOFT HAND** CREME Helps maintain the skin's natural moisture balance. Contains vegetable oils which are caring and softening on Item number: dry, rough and irritated skin. 31110 (12,5 kg) Without A&B substances. Item number: 26059 (100 ml)

NOBIT FAST

An effective, emulsifiable petroleum-based agent for removal of tar, bitumen, oil and the like. Well suited as motor cleaner. pH-value 7. Without A&B substances.

50795 (5 L) 50796 (20 L) 50797 (210 L)

machines as well as industry and material washing machines for cleaning of motors and brake parts. Low foaming. pH-value 8.6. Without A&B

types of dirt, oil, fat, bitumen as well as certain types of wax. Washing of transport equipment and garage floors. Inhibited against aluminium. Low foaming. pH-value 13.9. Without A&B substances.

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OVAREN EXTRA

powder. Well suited for white as well as coloured workwear.

TERRABAZ LIGHT centrated textile was

as well as coloured workwear

Item number

powder. Well suited for white

Item number: 56327 (bag 40 L)

Workshops – agents for all tasks



WASHING OF PASSENGER CARS

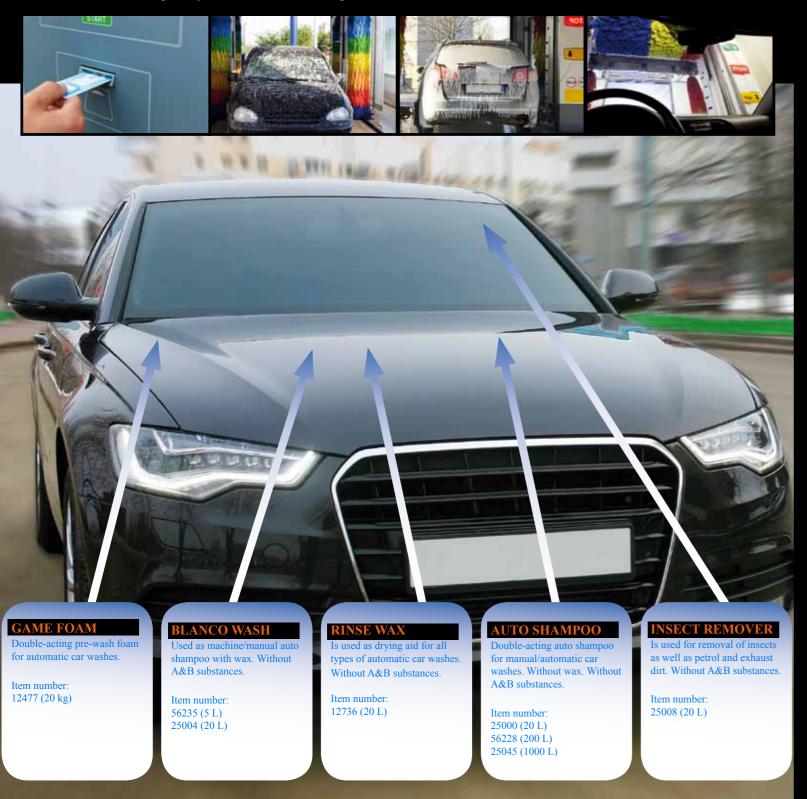
Also when it comes to washing of passenger cars, you can get help to a complete product portfolio. Here, you can find quality products for manual as well as machine washing, rinse wax, insect remover and more.

With Novadan's product portfolio, you ensure effective washing and clean cars: That results in satisfied customers. Especially when it comes to washing of

passenger cars, there is much focus on environmentally correct products.

Also here, you can confidently use Novadan's concept, because there are no dangerous substances which are harmful for the environment in the product portfolio.

You can read more about A, B and C-substances in the column to the right.



ENVIRONMENTALLY CORRECT WASHING

In recent years, there has been an increased focus from the authorities on which substances vehicle washes send with the waste water to the local wastewater treatment plant. In this connection, the chemical substances are divided into A, B and C-substances.

Below, you can see a definition of A, B and C-substances.

Novadan is at the forefront of the development and because we have our own laboratory, we can quickly react on the requirements which are made for the agents. Therefore, we can supply a whole product portfolio for washing without A & B substances whether you work with washing of trucks, busses, trains, road tankers or passenger cars.

Novadan is available for guidance in connection with wastewater authorization.

A. B AND C-SUBSTANCES

A-SUBSTANCES are unwanted in the environment and discharge to the drainage is often not allowed. Therefore, they have to be substituted or treated in a closed system.

As far as possible, **B-SUBSTANCES** should be substituted by less damaging substances and regulated according to the principle to use the best, accessible technique. Permit limits are laid down for the content of the discharged wastewater, so the concentration in the aquatic environment is not exceeded. Here, there will often be requirements for regular wastewater analyses which can document that the permit limits are not exceeded.

C-SUBSTANCES' properties do not give rise to permit limits in the wastewater. Here, it is regulated according to the requirement for use of the best, accessible technique.



Washing of passenger cars – clean cars and happy customers



WATER TREATMENT

RIONOX

Is used in the recycled water to remove bad odour (hvdro gen sulfide odour). Without A&B substances.

Item number: 14087 (20 L) 14089 (200 L) 14088 (1200 kg)

NATRIUMHYPOCHLORIT Is used as an oxidant in the chemical industry and for treatment of runoff. Without

A&B substances.

Item number: 31370 (22 kg) 60345 (Pionersalt 7 - 25 kg)

EXPO SALT TABS Used in small, au softening plants with built-in

Item number: 41365 (25 kg)

salt container.

HYPOCHLORID 30% Is used as a neutralizing agen in many areas in the industry.

Without A&B substances.

Item number: 14040 (23 kg)

SACHTO CLEAN

Flocculating agent for cleaning of bath and drinking water, sludge drainage, clearing of industrial water, cleaning of surface water and more. Without A&B substances.

Item number 60037 (12 kg) 60040 (250 kg) products.

garages.

1 2 3 4 5 6 7 8 9

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DEFOAMING/FOAM ENHANCING AGENTS

GAME ANTIFOAM 51

Is used for defoaming in all acidic and alkaline cleaning solutions. Silicone based. Without A&B substances.

Item number: 12483 (20 kg)

GAME ANTIFOAM 52

Is used for defoaming in all acidic and alkaline cleaning solutions. Works best at temperatures above 500C. Based on surfactants. Without A&B substances.

Item number 12484 (20 kg)

GAME FOAM

Is a product for foam enhar cing of cleaning agent solutions. Without A&B substances

Item number: 12477 (20 kg)

DOSING/PUMPS

HILL PUMPE.

BLACK Strong pump for 60 L and 200 L. Used for alkaline and acidic products.

Item numbe 41409

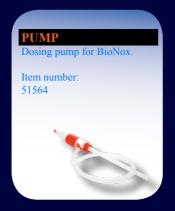
Other products

For drums and IBCs. Accessory: Connecting link for dosing pump.

Item number: 49026 Pump 41393 (accessory)

PUMP







D

Item number

44099

MINI KEMI SPRAY

be mounted) with pneumatic tires and 5 m hose with handle mounted with 60 cm rustproof lance.







THE NOTRA-PORTFOLIO

Novadan has developed a whole portfolio for effective washing of trucks and the like. The portfolio is called Notra (for Novadan and Transport), and is divided in ALKA, ACID and WS (WorkShop)

ALKA especially for degreasing, ACID especially for removal of lime, rust and more and WS specifically for use in workshops/

ACIDIC

Acidic cleaning agents are used for removal of lime deposits and rust. Acidic cleaning agents can damage enameled iron surfaces and chromium-plated objects. These agents can only be used diluted and have to be rinsed off with clean water immediately.

NEUTRAL

Neutral cleaning agents are used for light cleaning of driver's cabs, passenger cars, equipment, tiled walls and kitchens. Neutral agents are also used for cleaning of surfaces which do not tolerate strongly acidic or alkaline cleaning agents

ALKALINE

Alkaline cleaning agents are used for light as well as thorough cleaning. Alkaline cleaning agents are especially well suited for removal of fat since they are transformed into light soluble compounds.

PRODUCT DEVELOPMENT

At Novadan, there is much focus on product development and we see it as an essential part of our company. In our Research & Development Department highly educated developers work with continuous product development as well as optimizing of existing products. All this in close cooperation with internal (QC, consultants and product managers) as well as external partners (customers). Therefore, our products are tested thoroughly and are high quality and among the best on the market.

CARE FOR THE ENVIRONMENT

As one of the first companies on the market with ecolabel, care for the environment is a great part of Novadan's product development. Through many years, we have gathered valuable knowledge of substances and we are at the forefront of the development in this area. Our product portfolio for the transport industry does not contain any of the dangerous substances which are difficult to biodegrade.

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Novadan Research & Development

- innovation in focus

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The transport sector makes a number of demands on cleaning and maintenance and on disinfection in connection with transport of food or products in the food industry. Novadan has agents and methods which meet the demands.

Whether you work with washing of trucks, road tankers, busses, trains, garages or passenger cars, you can find solutions for your exact need in Novadan's concepts. This concerns interior as well as exterior washing.

Do you want to ensure that you find a sparring partner, which can guide you on the current legislation? Novadan is available in connection with guidance on wastewater authorization, requirements in connection with food transport etc.

There is an increased focus on environmentally correct products, and in Novadan's concepts, you can find solutions completely without the critical substances (A and B-substances).

After many years of experience of the transport market, Novadan has obtained great expert knowledge of optimum washing performance. In cooperation with our customers' machine suppliers and key customers, we have developed "state of the art" solutions.

We attach much importance to ensuring our customers a high level of service in the form of technical service and guidance from our experienced consultants.



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