



IBIX®
SPECIAL CLEANING

INERT MATERIALS

Архангельск (8182)63-90-72

Астана +7(7172)727-132

Белгород (4722)40-23-64

Брянск (4832)59-03-52

Владивосток (423)249-28-31

Волгоград (844)278-03-48

Вологда (8172)26-41-59

Воронеж (473)204-51-73

Екатеринбург (343)384-55-89

Иваново (4932)77-34-06

Ижевск (3412)26-03-58

Казань (843)206-01-48

Калининград (4012)72-03-81

Калуга (4842)92-23-67

Кемерово (3842)65-04-62

Киров (8332)68-02-04

Краснодар (861)203-40-90

Красноярск (391)204-63-61

Курск (4712)77-13-04

Липецк (4742)52-20-81

Магнитогорск (3519)55-03-13

Москва (495)268-04-70

Мурманск (8152)59-64-93

Набережные Челны (8552)20-53-41

Нижний Новгород (831)429-08-12

Новокузнецк (3843)20-46-81

Новосибирск (383)227-86-73

Орел (4862)44-53-42

Оренбург (3532)37-68-04

Пенза (8412)22-31-16

Пермь (342)205-81-47

Ростов-на-Дону (863)308-18-15

Рязань (4912)46-61-64

Самара (846)206-03-16

Санкт-Петербург (812)309-46-40

Саратов (845)249-38-78

Смоленск (4812)29-41-54

Сочи (862)225-72-31

Ставрополь (8652)20-65-13

Тверь (4822)63-31-35

Томск (3822)98-41-53

Тула (4872)74-02-29

Тюмень (3452)66-21-18

Ульяновск (8422)24-23-59

Уфа (347)229-48-12

Челябинск (351)202-03-61

Череповец (8202)49-02-64

Ярославль (4852)69-52-93



IBIX® ART

IBIX®ART is an air-abrasion specific blasting material selected by IBIX to be used with IBIX® eco-blasters and Micro-air-abrasion IBIX® and HELIX® equipment.

Natural, 100% eco-friendly mineral, for a wide range of applications in sandblasting, micro-blasting, dry and humid air-abrasion thanks to the many granulometry curves available.

Cost-saving:

Tiny crystal composition, high relative density, the lowest blasting pressure- all this to minimise blasting material consumption, reduced by 50-75% in comparison with traditional abrasives used in blasting.

High productivity:

As small amounts of aggregate are used (2 - 5 kg/m²) and productivity is high (10 m²/h), using IBIX®ART helps to significantly reduce blasting and cleaning costs.

In fact, IBIX®ART, the inert material for air-abrasion, features a high cutting speed due to the high number of aggregate grains per volume hitting the surface (144/units of volume against 85

for slug).

Depending on the operating conditions, this means higher blasting speed (m²/h) up to 50-100%, plus a very low abrasive consumption (-66%). So, productivity is enhanced when compared with traditional slug-based abrasives or made from stones and glass.

* These are indicative values only. They should be regarded as average values only.

Clean:

IBIX®ART is a chemically neutral, non-metal inert material. Free of toxic chemicals, IBIX®ART does not emit free silica and it is not carcinogenic. It is 100% eco-friendly and in full compliance with safety at work regulations and environmental standards. Does not contain ferrite, impurities or pollutants; it is not radioactive and is free of salts. All these characteristics combined with low consumption result in a significant reduction of disposal costs.

Safe:

IBIX®ART inert material for air-abrasion is not toxic and therefore, it is well below the allowed maximum values set forth by the environmental protection standards on silicogenic (crystalline silicon), toxic and carcinogenic components. A safe and clean work environment is so assured; noise is markedly reduced thanks to a low-pressure blasting method.

Truly hard. No dust produced:

IBIX®ART inert material for air-abrasion features high hardness (7.5 – 8 Mohs) and toughness, very low friability and high relative density (4.1). All these characteristics plus a sub-angular morphology facilitate a dust-free dry blasting process. Top quality blasting- by adjusting the grain size used and the operating pressure you can perfectly control the work to obtain a perfectly uniform surface roughness. The SA3-blasting standard is easily met.

IBIX®ART's high relative density helps transfer a lot of kinetic energy when the blasting material hits a surface, which translates into a marked increase in efficacy and in blasting and cleaning performance.

Due to the high toughness and low friability showed by IBIX®ART, it can be reused several times, thus cutting down blasting and cleaning costs in connection with consumables.

Non-hygroscopic:

IBIX®ART inert material for air-abrasion does not absorb moisture, and so storing and using the product are truly easy tasks.

IBIX®ART is the inert material specific for dry and humid air-abrasion selected to obtain the best performance of the IBIX® System.

USE AND APPLICATION TIPS

IBIX®ART is the inert material specific for air abrasion; it features the main basic characteristics to guarantee efficient, economic and eco-friendly blasting and cleaning.

Therefore, IBIX®ART is the blasting material recommended to be used with IBIX 9, IBIX 25, IBIX 40 eco-blasters, IBIX H2O Micro-air-abrasion equipment and with HELIX® helical vortex gun.

Chemical & Physical Characteristics:

- Appearance: Mineral
- Shape: Sub-angular
- Relative density: 4.1
- Colour: From pink to dark red
- Hardness: 7.5 - 8 Mohs

Grain sizes available:

STRONG

SPEED BLAST

MEDIUM

FINE

EXTRA FINE



IBIX® GRIT



Corn cob



Shredded walnut shells

The granular material obtained from walnuts is little hygroscopic, with little fermentation, and no bacterial flora develops.

They last long even in humid weather conditions;

People who work with this material do not need to wear any special protection equipment. No chemical treatment has been applied at our suppliers' facilities or during the manufacturing process.

Our products are 100% natural; no mineral products or other plant elements are added. We guarantee our products are 100% non-toxic and safe to use.

Our plant grains are obtained after dehydrating and degreasing walnut shells. Non-woody waste and any foreign mineral or metal elements are discarded. Aided by our vast technical experience, we obtain a 100% homogeneous product.

Fields of application:

Materials with different grain size are used to blast a wide range of surfaces, even if they are not chemically treated. They are used when the edges and shape as well as the surfaces of a part should not to be changed. They are recommended when no change on the surface is allowed.

Petrochemical industry

Cleaning of gas turbine compressor blades.

Blasting of pistons and valves in turbines and pumps.

Aeronautical and automotive industries

Blasting of pistons, valves and cooling blades in turbines and pumps.

Electronics

Fine grains are suitable for cleaning those delicate parts in electronic components.

Rubber

Cleaning of moulds used to manufacture tyres.

Plastic

Deburring of objects made of thermosetting materials

Satin finish of thermoplastic parts.

Cleaning of moulds.

Other applications

Cleaning of electric motor housing before winding.

Paint stripping of metallic and glassy surfaces.

In foundry a grain size of 1/1.7 mm is used to make moulds and resin models.

Different grain sizes are used as well to create a honeycomb structure in the abrasive grinding wheels.



Microscopic glass beads

The inert glass beads is available in two grain sizes:

- Average grain size
- Fine grain size



Calcium carbonate CarbonArt

CarbonArt® Z5/Z6 is an inert material that the IBIX technical team selected in collaboration with experts in monument restoration.

After laboratory and worksite testing it proved to be one of the most effective and less invasive materials for cleaning stone, brick and lithotypes in general.

CarbonArt® contains calcium carbonate in two grain sizes that IBIX® selected specifically for cleaning works of art. Very fine, homogeneous grain size and rounded morphology, as well as the purity of the extremely white material are features certified by analyzing every production batch.

These characteristics, plus Mohs hardness lower than 3, make CARBONART® an excellent product for cleaning stone elements and especially delicate old brick on monumental works defaced by soot, black crusts, carbonizations in general, air-borne particles and saline efflorescence.



Sodium Bicarbonate Fixed grain size

The IBIX blasting system with sodium bicarbonate gives efficient cleaning performance yet leaves the support unaltered even where surfaces are shiny (unlike traditional blasting which uses now-prohibited silica materials).

Since sodium bicarbonate has a fine, floury consistency and produces considerable amounts of dust, we recommend that it be used together with the IBIX DL3K Water Vaporiser, which stops dust dispersion completely by way of a screen of finely sprayed water.

WHERE TO USE SODIUM BICARBONATE

- IBIX sodium bicarbonate blasting is ideal for use in the foodstuff industry because, in addition to guaranteed hygiene, it gives excellent cleaning results on metal surfaces such as pots and pans, stoves, extraction fan hoods, gratings, conveyor belts etc. Sodium bicarbonate can be used in kitchens, canteens, hospitals, hotels, catering companies, bakeries and firms involved in the processing of meat, pasta, etc.

- The IBIX blasting system with bicarbonate is especially effective when it comes to cleaning of oxidised aluminium, stainless steel and chromium-plated plastic or metal. This means oxidised aluminum can be cleaned without any risk of damaging the very fine surface coating. Excellent results with chromium-plated materials too.

Residue/corrosion can be removed from window frames and doorsteps to restore them completely, without having to protect the pane because sodium bicarbonate will not damage the glass. It can even be used to remove graffiti from glass (but not acrylic or other artificial glasses as they are rendered opaque).

Limescale and encrustation can be removed easily, thus making sodium bicarbonate ideal for the blastcleaning of public toilets, schools, barracks, hotels, factories, stadiums, sports centres, saunas, hospitals etc.
- The IBIX sodium bicarbonate blasting system can also be used effectively on coach, bus truck, bulldozer and loader engine radiators. Normally, these radiators need to be removed, soaked in solvents and then cleaned with a water jet at 100 bar, a pressure which can warp the radiator fins and cause serious damage. Moreover, the IBIX system gives better cleaning results.
- It is successfully used in all situations where it is necessary not to cause any damage to electric circuits, hydraulic circuits, rubber parts, hard plastic parts or any fragile surfaces. Baking soda is therefore particularly useful for the maintenance of machine-tools, lifting equipment (cranes, lifting platforms...)
- It is particularly suitable for the cleaning of industrial moulds or in the food and farming sectors because it does not cause any materials deformations or degradations. Because the IBIX system operates at pressures of just 0.5/1 bar and uses sodium bicarbonate, the radiator can be given a thorough clean without having to remove it and without damaging it. Similarly, the IBIX sodium bicarbonate solution is ideal for the cleaning of heat exchanger coils.



IBIX®

SPECIAL CLEANING

Архангельск (8182)63-90-72

Астана +7(7172)727-132

Белгород (4722)40-23-64

Брянск (4832)59-03-52

Владивосток (423)249-28-31

Волгоград (844)278-03-48

Вологда (8172)26-41-59

Воронеж (473)204-51-73

Екатеринбург (343)384-55-89

Иваново (4932)77-34-06

Ижевск (3412)26-03-58

Казань (843)206-01-48

Калининград (4012)72-03-81

Калуга (4842)92-23-67

Кемерово (3842)65-04-62

Киров (8332)68-02-04

Краснодар (861)203-40-90

Красноярск (391)204-63-61

Курск (4712)77-13-04

Липецк (4742)52-20-81

Магнитогорск (3519)55-03-13

Москва (495)268-04-70

Мурманск (8152)59-64-93

Набережные Челны (8552)20-53-41

Нижний Новгород (831)429-08-12

Новокузнецк (3843)20-46-81

Новосибирск (383)227-86-73

Орел (4862)44-53-42

Оренбург (3532)37-68-04

Пенза (8412)22-31-16

Пермь (342)205-81-47

Ростов-на-Дону (863)308-18-15

Рязань (4912)46-61-64

Самара (846)206-03-16

Санкт-Петербург (812)309-46-40

Саратов (845)249-38-78

Смоленск (4812)29-41-54

Сочи (862)225-72-31

Ставрополь (8652)20-65-13

Тверь (4822)63-31-35

Томск (3822)98-41-53

Тула (4872)74-02-29

Тюмень (3452)66-21-18

Ульяновск (8422)24-23-59

Уфа (347)229-48-12

Челябинск (351)202-03-61

Череповец (8202)49-02-64

Ярославль (4852)69-52-93

Единый адрес для всех регионов: ixb@nt-rt.ru || www.ibix.nt-rt.ru