
ITAPROCHIM
Materials solutions

ITAPROCHIM would like to give a brief introduction of its activities…

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ITAPROCHIM brief history

Foundation **ITAPROCHIM** was formerly founded in 1990

Ownership Fully privately owned

Main activities Production and trading of high quality first choice chemical raw materials for several industrial applications

Quality assurance In 1998 **ITAPROCHIM** first obtained UNI EN ISO 9001 approval. In 2009 **ITAPROCHIM** accomplished with success new UNI EN ISO 9001:2008 standards for production and trading activities

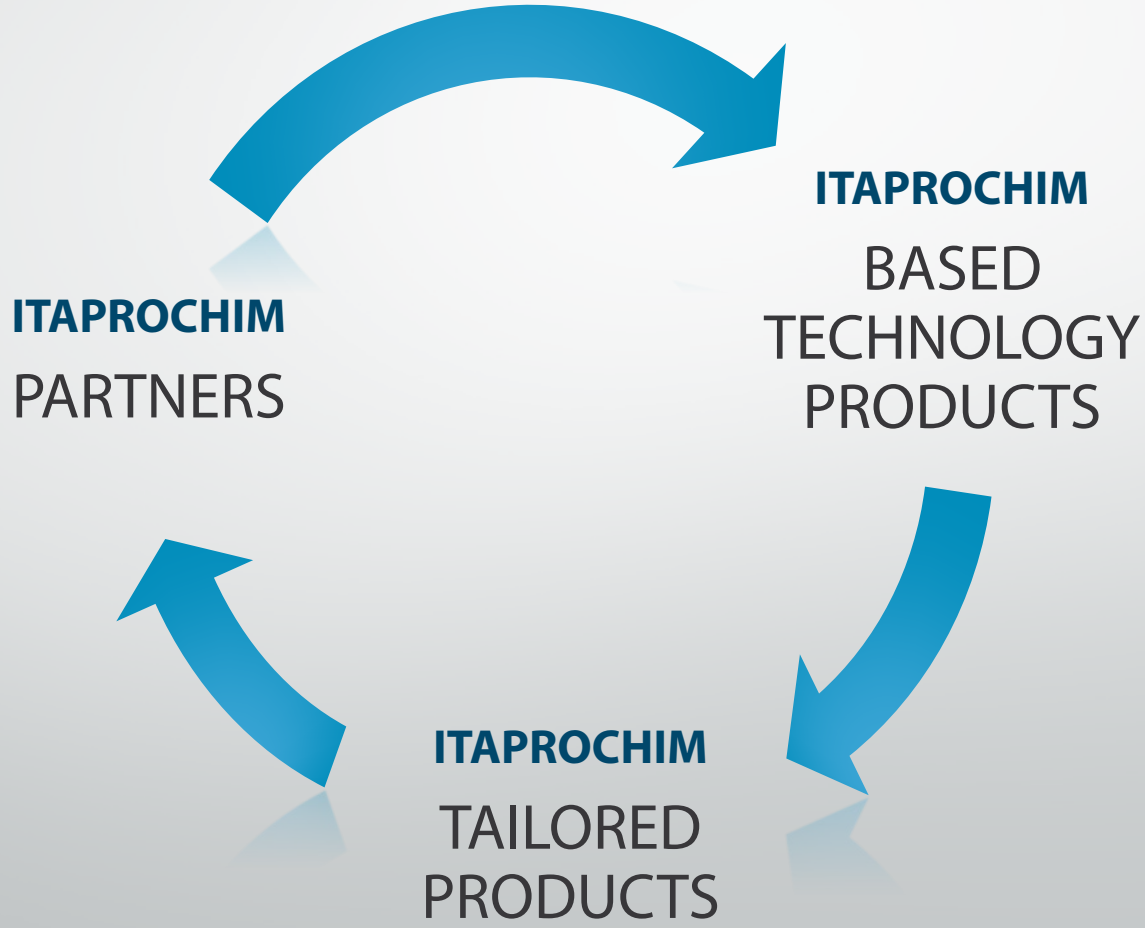
UNI EN ISO 9001:2008

CERTIQUALITY

ITAPROCHIM main units

- Commercial office **Milano**
- Production unit/warehouse **Garlasco (PV)**

ITAPROCHIM activities



ITAPROCHIM based technology products

Since the beginning of 1992, **ITAPROCHIM** started developing special products mainly for friction industries with its own technology.

- SICACELL hydrated calcium silicate mod. with cellulose fiber
- ULTIMATE antimony and molybdenum replacement
- PROCHIM GP special rubber in powder form for fading and noise reduction for PC pads
- STILOX F37 special steel flake coated by iron oxide for improve the material performances as friction level and noise reduction
- ALOX calcined aluminum oxide with different particle size and α-Al_2O_3 content
- PROCHIM D mineral iron aluminosilicate that work as medium-high abrasive
- MECHANOMADE ® FA25 metal powder in flake form
- TITANATES improves mechanical and thermal strength, stabilizes wear and friction

SICACELL

The SICACELL products are composed of hydrated synthetic calcium silicate, silica free.

- Improves the dispersion of the ingredients in the mix.
- Good anti-segregation property of raw materials.
- Improves the affinity with the fibers and the powders in the mix.
- Improves the green strength of the pads.
- Offers good compatibility with phenolic resin.
- Decreases the thermal conductivity of final products.
- Material saving thanks to the low density and higher porosity of friction material.

ULTIMATE

Our Ultimate are composed by a series of lubricant mix, specially designed for friction material, that act in a wide range of temperatures.

- Stabilizer of the friction coefficient in a wide range of temperature for all applications of disc brake pads and linings.
- Improve the NVH due to less noise and lower vibrations.
- Less wear, increase durability of brake pads and brake discs.
- Green and cheaper materials respect to other lubricants as Sb_2S_3 and MoS_2.

PROCHIM GP

An innovative polymer in powder with high damping capacity of both vibration and noise which has been developed and tailored to the brake pad field and can be used without premixes and vulcanizing agents.

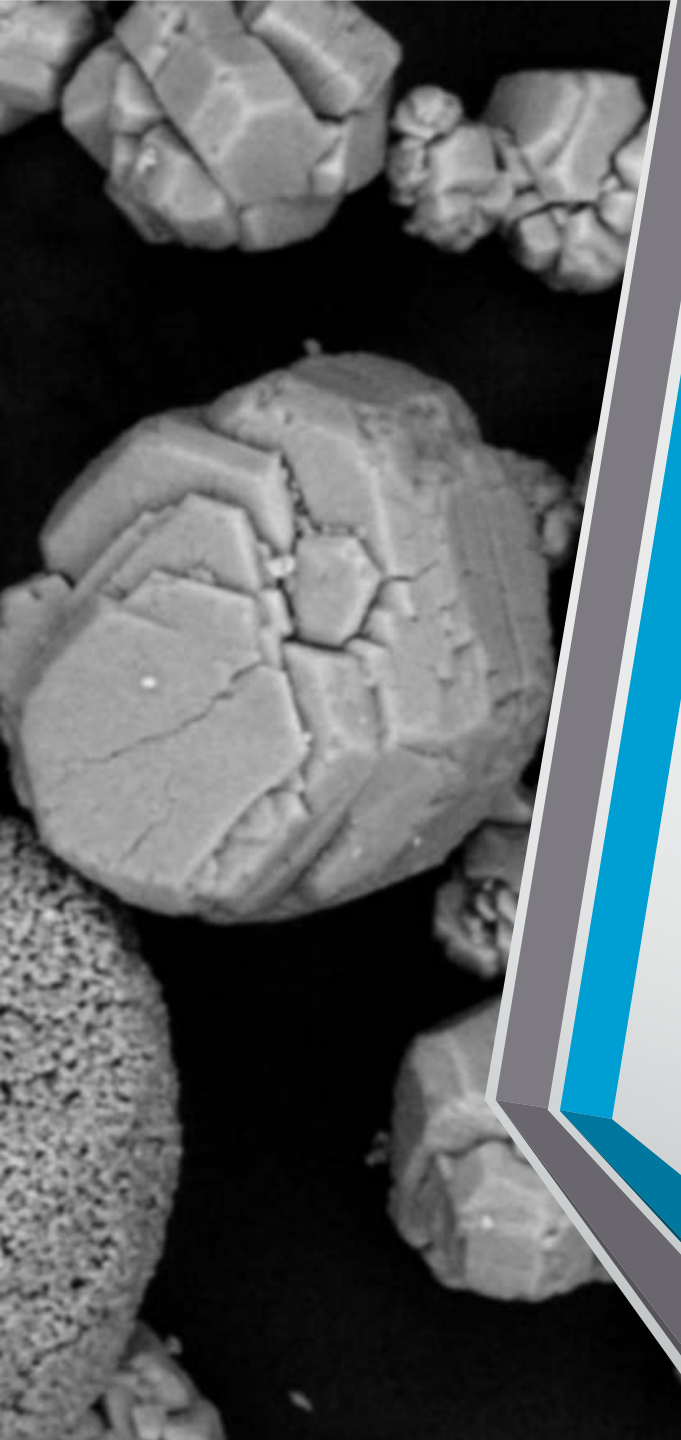
Prochim GP compared to NBR rubber

- Increases cold compressibility keeping low values of swelling.
- Improves fading and performances at high temperature.
- Low wear.
- Reduces noise and improves damping.

STILOX F37

The best and economic solution to reduce the steel fiber content.

- STILOX F37 can be used in the low steel formulations (suggested amount: of 5÷15%wt) as friction stabilizer under all the test conditions.
- Thanks to its particular composition that changes in function of the temperature, Stilox F37 lowers the friction in cold condition while it enhances the friction at high temperature and improves the speed sensitivity.
- In addition, its lamellar structure facilitates the sliding between the parties reducing the vibrations. Less friction vibrations means better noise properties.



ALOX SERIES

Calcined aluminum oxide with different particle size and α-Al_2O_3 content.

ALUMINA IN ABRASIVE AND FRICTION MATERIALS

- Alumina is used in the production of abrasives and friction materials due to the high hardness and strength of its crystals.
- Higher is the α-Al_2O_3 content and higher is the hardness and the effectiveness on friction.
- This effect increases with increasing particle size and angular shape but an excessive amount can negatively affect the wear, especially of the disc.

PROCHIM D

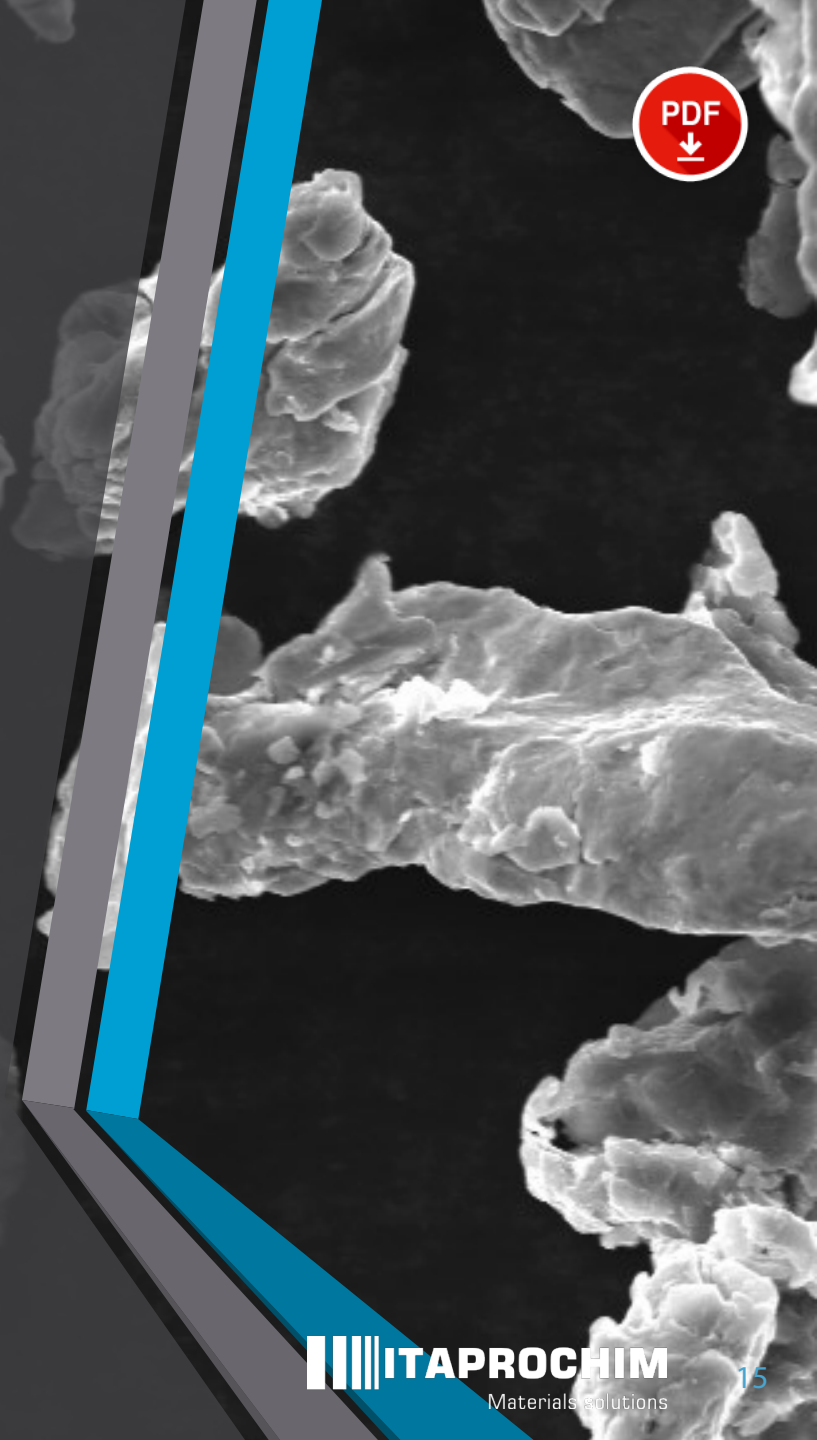
Prochim DF and Prochim DS are mineral iron aluminosilicate that work as medium-high abrasive.

- PROCHIM D series is composed by materials with medium/high abrasive power.
- PROCHIM D have chemical composition different to zirconium silicate and very similar characteristic such as hardness, density and particle size.
- In friction material they show friction level similar to zirconium silicate at a very competitive price.

MECHANOMADE® FA25

Mechanomade® FA25 is a metal powder manufactured by a mechano-chemical process called High Energy Ball Milling (HEBM).

- The distinctive characteristic of this process is the possibility to intimately mix materials at micro-nano scale and contemporaneously to promote the refinement of crystal structure achieving in this way the modification of physical-mechanical characteristics and the possibility to produce innovative solutions.
- Thanks to this process, specifically functionalized products having singular properties in which the fine elements distribution and the phases integration, favor the achievement of superior performances.



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TITANATES

The titanates have outstanding properties such as high mechanical strength, thermal and chemical stability and wear resistance. For these qualities, they are widely used as reinforcing agents in plastics and composite materials for technological applications.

- In the friction materials, titanates help to stabilize the coefficient of friction, reduce wear, give mechanical and thermal resistance. Furthermore, the potassium titanate acts in synergy with the fibrillated organic fibers favoring the stability and the resistance to the temperature of the tribo-film.

ITAPROCHIM tailored products

In order to better fulfill customer requests, especially for small to medium size accounts, **ITAPROCHIM** decided to implement its portfolio with other selected chemical raw materials being sold under the **ITAPROCHIM** trade mark.

PRODUCTS TIPOLOGY

- **Abrasives**
- **Metals & alloys**
- **Friction modifiers & fillers**

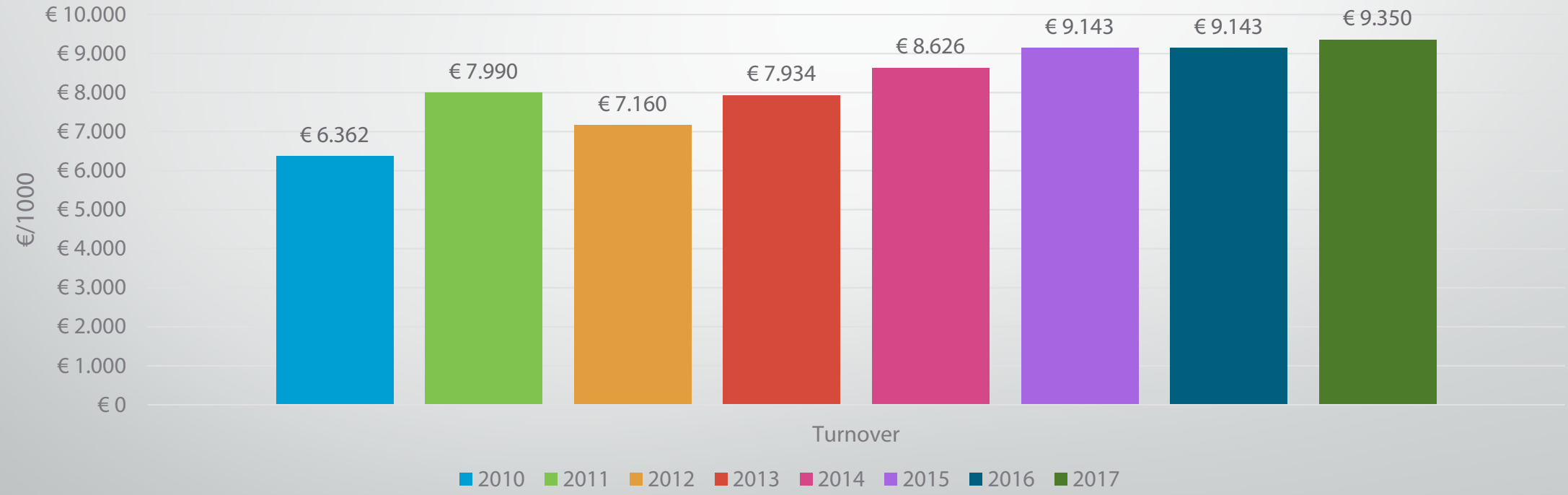
ITAPROCHIM services

ITAPROCHIM offers, thanks to its long experience, a series of complementary services for different fields.

PROCESSING

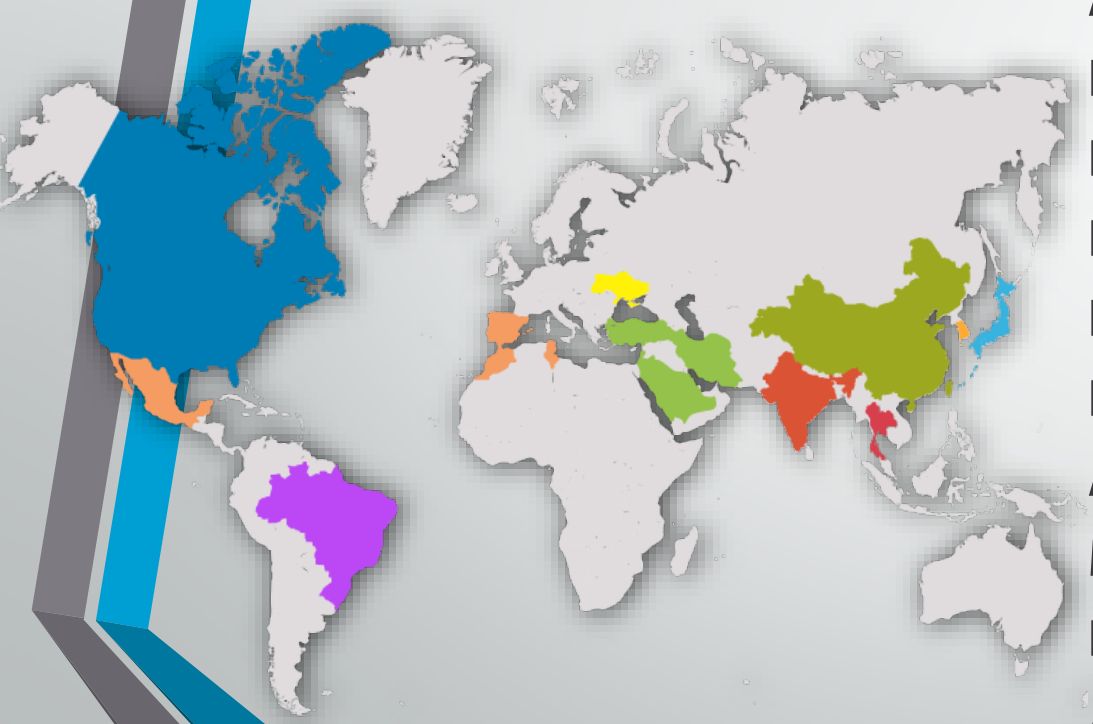
- **Milling** Hammer Mill / Ball Mill
- **Mixing** High quality ploughshare mixer for powder, granules and short fibers
- **Packaging** Bagging and palletizing system

ITAPROCHIM turnover



Note: above shown turnover is given by direct and indirect sales

ITAPROCHIM sales network agents



Asbury Graphite Mills USA & Canada

Keiron Chemicals Spain / Portugal / Morocco / Tunisia / Mexico

Braschem Int. Negócios Brasil

PJC Bang & Bonsomer Ukraine

Emc Ticaret - Ebru Cidrof Turkey

Risus Ventures OPC India

Acme International Thailand

Merak Composite Material China

Dure Corporation Korea del Sud

Aichi Sangyo Co. LTD Japan

All the other areas are followed directly by **ITAPROCHIM** team

ITAPROCHIM is the official distributor

ITAPROCHIM quality assurance

THE INTERNATIONAL CERTIFICATION NETWORK

CERTIFICATE

CISQ/CERTIQUALITY S.r.l.
as an IQNet Partner hereby states that the organization:

ITAPROCHIM S.R.L.

IT - 20139 MILANO (MI) - VIA CARLO BIANCONI 8/A

Trading and production of chemical products.

has implemented and maintains a
Quality Management System
which fulfils the requirements of the following standard
ISO 9001:2015

Issued on: 2017-11-28
Certified since: 1998-10-08
for the validity date, please refer to the original Certificate" issued by CISQ/Certiquality s.r.l.

Registration number: IT-6235

Alex Stoichitoiu
President of IQNET

Ing. Claudio Provetti
President of CISQ

CERTIFICATO n. 1358
CERTIFICATE No

ITAPROCHIM S.R.L.

IT - 20139 MILANO (MI) - VIA CARLO BIANCONI 8/A
IT - 20139 MILANO (MI) - VIA CARLO BIANCONI 8/A
IT - 27036 GARLASCO (PV) - VIA LEONARDO DA VINCI 4/A

UNI EN ISO 9001:2015

IAF 29, 12

Commercializzazione e produzione di prodotti chimici
Trading and production of chemical products

08/10/1998
28/11/2017
30/11/2020
28/11/2017

ACCREDIA

1998 **ITAPROCHIM obtained first UNI EN ISO 9002 approval.**

2009 **ITAPROCHIM accomplished with success new UNI EN ISO 9001:2008 standards for production and trading activities.**

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