



chimet[®]
REFINING AND FINE CHEMICALS

Catalyst Division

go faster

www.chimet.com



About us

Chimet S.p.A.

Chimet is a leader in precious metals recovery and refining, as well as in manufacturing precious metal catalysts. Our service in catalysis involves a full loop service going from the production of fresh catalysts to the metal recovery from the spent catalysts. The recovered precious metal is again transformed into fresh catalyst.

Catalysts production

Chimet produces supported catalysts based on precious metals (Pd, Pt, Rh, Ru) used in many applications like the hydrogenation of organic intermediates, purification of terephthalic acid, synthesis of hydrogen peroxide, and volatile organic compounds abatement (VOC).

The most common catalysts are supported on activated carbon, and oxidic supports (i.e., Al_2O_3 , SiO_2 , CaCO_3 , BaSO_4). Unsupported metals and oxides (i.e., Adams Pt oxide) are also available together with salts and complexes used in homogeneous catalysis.

“Tailor-made” catalysts are also produced upon request following individual customer’s specific requirements.

Pd Pt

Rh Ru



A hand in a white glove is pouring a vibrant red liquid from a test tube into a glass Erlenmeyer flask. The flask already contains a yellow liquid, and the red liquid is being added to it, creating a swirling effect. The background is a plain, light color.

Dynamic

Chimet service

Chimet service is devoted to provide a complete loop service that covers the supply of fresh catalysts and the treatment of spent catalysts with the guarantee of maximum metal recovery yield in the shortest time. We offer efficient services including special quantity requests and personalized packaging. Prompt reply and delivery is the key of our success.

Our wide range of products and services according to ISO 9001:2000, and ISO 14001 rules is a guarantee of reliability. We are able to provide facility services for catalyst characterization including catalytic performance evaluation in Lab-scale and pilot reactors.

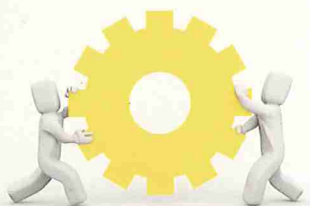
Exclusive
agreements
are signed



Research & Development

Over the years our R&D group has developed a wide know-how by working closely with universities and research institutes. This allows us to provide solutions to our customers for the selection of the proper catalyst and its optimization for getting a high activity and selectivity as well as a long catalyst life. The after sale technical assistance is one of our key of success.

Loop Service



01 Infinite LOOP

Reduce your process costs and the effect on environment by Chimet loop service.



02 Dynamic service

Prompt reply and delivery are the ingredients of our success.



03 R & D

Customized catalyst design to enhance your process yield and efficiency.

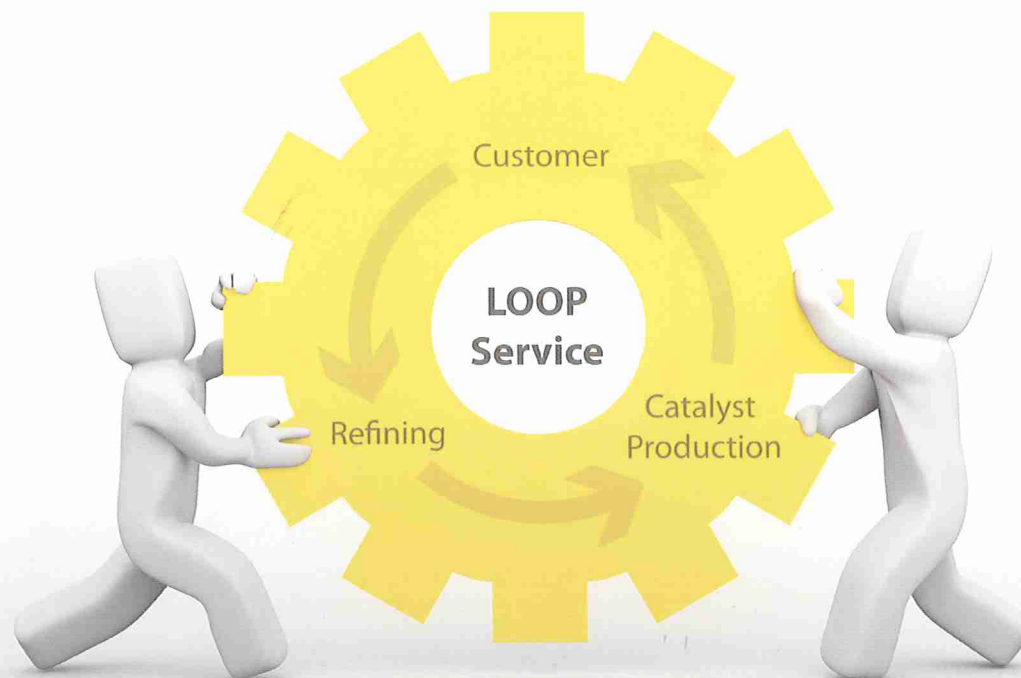


04 Secrecy

Complete confidentiality as a guarantee of a serious and long term partnership.

Infinite LOOP

Reduce your process costs and the effect on environment by Chimet loop service.



Catalysts for Hydrogenation of Organic Intermediates

We produce more and more catalyst types with the purpose of meeting the customers requirements and needs. In order to obtain the desired activity, selectivity and life, modification of the catalyst list is available by changing the precious metal content, the support type (wood carbon, peat carbon etc.), the state of the metal (reduced or unreduced), the metal distribution (Egg-shell, Mixed, Uniform), the presence of promoters/poisoning (alkali metals, sulfur, etc.) and many other parameters that are an important part of our know how.

Precious Metal Compounds as Catalysts

Precious metal compounds (PtO₂ Adams, Pd acetate, RuCl₃, etc.) are also available as unsupported heterogeneous catalysts or homogeneous catalytic systems.

Chimet catalysts series

Chimet catalysts series constitute an indispensable tool for the development of synthetic processes.

5-10% Pd on Carbon 5% Pd on Alumina 5% Pd on BaSO ₄	Hydrogenation of alkynes, alkenes, aromatic and aliphatic nitro compounds, carbonyls in aromatic. Hydrogenolysis (debenzylation) and hydrodehalogenation.
5% Pd-Pb on CaCO ₃ (Lindlar)	Selective hydrogenation of alkynes to alkenes.
0.5% Pd on granular Carbon	Purification of terephthalic acid.
5% Pt on Carbon	Selective hydrogenation of halonitroaromatics, reductive alkylation.
5% Rh on Carbon 5% Rh on Alumina	Hydrogenation of aromatic rings and olefins.
5% Ru on Carbon 5% Ru on Alumina	Hydrogenation of aromatic rings, aliphatic aldehydes and ketones, and sugars.

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