



neocat
grow...evolve...grow

Catalyst Catalogue

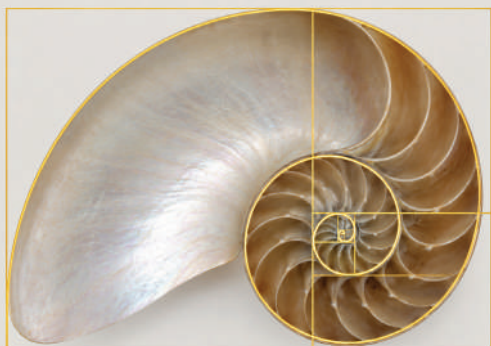


Offering a wide range of catalysts tailored
for your specific reaction needs.

AT NEOCAT

We are working to develop highly selective catalysts and catalytic processes for various reactions such as *hydrogenation, alkylation, acylation, oxidation, hydroxylation, isomerization, nitration* etc.

The main focus of the organization is to work in collaboration with customers, be their partners in development and make available these catalysts on commercial scale to help *replace the conventional polluting, non-catalytic processes with environmentally sustainable and more efficient processes.*

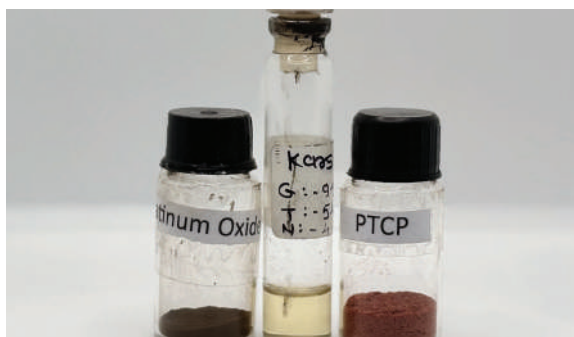


The Nautilus Shell, whose spiral perfectly follows this ratio, has come to symbolize its harmony. Described as both golden and divine, it represents a deeper understanding of the unity between science, nature, and spirituality.

For us at NEOCAT, it embodies our pursuit of beauty, perfection, and performance in catalyst design. Just as the universe evolves through stages from the growth of civilizations to the evolution of species we, too, draw inspiration from the Golden Ratio to chart our own journey of growth, innovation, and contribution toward a more sustainable future.

PRECIOUS METAL CATALYSTS

Advanced Pd, Pt, Ru & Rh homogeneous catalysts & salts for complex coupling chemistry, with ligand-based systems & integrated metal recovery solutions.



Please note that the images here are not representative of the true colour of the products.

HOMOGENEOUS PALLADIUM CATALYSTS

Grades	Catalysts	CAS Nos.
NCAT 1001	Sodium Tetrachloro Palladate (II) Salt, Solution	13820-53-6
NCAT 1002	Palladium (II) Chloride	7647-10-1
NCAT 1003	Palladium (II) Nitrate solution	10102-05-3
NCAT 1004	Palladium (II) Acetate	3375-31-3
NCAT 1005	Trans- Dichlorobis (Triphenylphosphine) Palladium (II)	13965-03-2
NCAT 1006	Tetrakis (Triphenylphosphine) Palladium (0)	14221-01-3
NCAT 1007	Palladium Acetylacetonate (PdAcac)	14024-61-4
NCAT 1008	Pddppf [1,1'-Bis(diphenylphosphino)ferrocene] dichloropalladium(II)	72287-26-4
NCAT 1009	Pddppf.DCM complex [1,1'-Bis(diphenylphosphino)ferrocene] dichloropalladium(II) DCM complex	95464-05-4
NCAT 1010	Pd(PCy3)2Cl2 Bis(tricyclohexylphosphine) Palladium(II) Dichloride	29934-17-6
NCAT 1011	Allyl Palladium Chloride	12012-95-2

PRECIOUS METAL CATALYSTS

Grades	Catalysts	CAS Nos.
NCAT 1012	Pd ₂ (dba) ₃ Tris(dibenzylidene Acetone) Palladium	51364-51-3
NCAT 1013	Bis(acetonitrile) Dichloropalladium (II)	14592-56-4
NCAT 1014	Bis(tri-tert-butylphosphine)palladium(0)	53199-31-8
NCAT 1015	Palladium (II) Nitrate Dihydrate	32916-07-7
NCAT 1016	Bis(acetonitrile)palladium dichloride	14592-56-4
NCAT 1017	Sodium tetrachloropalladate(II)	13820-53-6
NCAT 1018	Tris(dibenzylideneacetone)dipalladium chloroform	52522-40-4
NCAT 1019	Bis(benzonitrile)dichloropalladium	14220-64-5

HOMOGENEOUS PLATINUM CATALYSTS

Grades	Catalysts	CAS Nos.
NCAT 2001	Platinum (IV) Oxide Hydrate	52785-06-5
NCAT 2002	Platinum (IV) Oxide Anhydrous	1314-15-4
NCAT 2003	Chloroplatinic Acid Di Hydrogen Hexachloro Platinatate(IV) Hydrate	26023-84-7
NCAT 2004	Platinum Tetrachloride	13454-96-1
NCAT 2005	Tetra-ammine Platinum (II) Chloride solution "TPC Pt"	13933-32-9
NCAT 2006	Potassium Tetrachloro Platinatate (II)[PTCP]	10025-99-7
NCAT 2007	Pt-A Salt Solution Bis (Ethanol Ammonium) Hexa Hydroxo Platinum	68133-90-4
NCAT 2008	Karstedt's Catalyst Divinyl Tetramethyl Disiloxane Pt (0)	68478-92-2

PRECIOUS METAL CATALYSTS

HOMOGENEOUS RUTHENIUM CATALYSTS

Grades	Catalysts	CAS Nos.
NCAT 3001	Ruthenium (III) Chloride Hydrate	14898-67-0
NCAT 3002	Ruthenium Acetylacetonate	14284-93-6
NCAT 3003	Triruthenium dodecacarbonyl	15243-33-1
NCAT 3004	Dichloro(1,5-cyclooctadiene) Ruthenium(II), Polymer	50982-12-2
NCAT 3005	Ru Binap Complex Diacetato[(R)-(+)-2,2'-bis (diphenyl phosphino)-1,1'-binaphthyl] Ruthenium(II)	325146-81-4
NCAT 3006	Ruthenium(III) acetate salt	72196-32-8
NCAT 3007	Ruthenium(III) acetate Solution	72196-32-8

HOMOGENEOUS RHODIUM CATALYSTS

Grades	Catalysts	CAS Nos.
NCAT 4001	Rhodium(III) Chloride Hydrate	20765-98-4
NCAT 4002	Rhodium(II) Acetate Dimer	15956-28-2
NCAT 4003	Rhodium(II) Octanoate Dimer	73482-96-9
NCAT 4004	Wilkinson Catalyst Tris(triphenylphosphine) Rhodium(I) Chloride	14694-95-2

PRECIOUS METAL CATALYSTS

HOMOGENEOUS IRIDIUM CATALYSTS

Grades	Catalysts	CAS Nos.
NCAT 5001	Iridium Chloride Hydrate	14996-61-3
NCAT 5002	Iridium(III) Acetate salt	52705-52-9
NCAT 5003	Iridium(III) Acetate solution	37598-27-9
NCAT 5004	Ir-COD Dimer	12112-67-3



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PRECIOUS METAL CATALYSTS

High-performance precious metal (Pd, Pt, Ru and Rh) heterogeneous catalysts designed for selective hydrogenation, with tailored formulations available in powder & shaped forms & tailored formulations, with integrated supply & end-to-end metal recovery.



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HETEROGENEOUS PALLADIUM CATALYSTS

Description	Grades	Applications
1%Pd/C	NCAT 1110-1 NCAT 1121-1	<div>Hydrogenation of</div> <ul style="list-style-type: none">✓ Aromatic & Heteroaromatic Rings✓ Aliphatic and Aromatic Nitro to Amine,✓ Dehalogenation✓ CC Triple Bond to Alkyls, (e.g. Sertraline HCl, INPA, Valacyclovir, Nebivolol)✓ Cbz Deprotection✓ Nitrile to Amine✓ Hydrogenation of Heteroaromatic Ring✓ Ketone to Alkyls (Hydrogenolysis)✓ (e.g. Lisinopril, Tamsulosin)✓ N, O-Debenzylation✓ Hydrogenation of Imines to Amine
2%Pd/C	NCAT 1110-2, NCAT 1121-2	
2.5%Pd/C	NCAT 1230-2.5	
5%Pd/C	NCAT 1110-5, NCAT 1121-5, NCAT 1171-5, NCAT 1130-5, NCAT 1134-5, NCAT 1230-5, NCAT 1140-5, NCAT 1142-5, NCAT 1143-5	
10%Pd/C	NCAT 1110-10, NCAT 1121-10, NCAT 1140-10, NCAT 1143-10	
20%Pd/C (Pearlman's Catalyst)	NCAT 1110-20	
5%Pd/CaCO ₃ (Including Lindlar Catalyst)	NCAT 1834-5, NCAT 1834L-5	<ul style="list-style-type: none">✓ Acid Chloride to Aldehydes, Isomerization✓ C-C Triple Bond to C-C Double Bond

PRECIOUS METAL CATALYSTS

Description	Grades	Applications
0.5%Pd/Al	NCAT 1611-0.5	✓ Hydrogenation of C-C Double Bond, ✓ Aldehydes/Ketones to Alcohol, Dipentene to 3-p-Menthene, Isomerization
1%Pd/Al	NCAT 1611-1	
3%Pd/Al	NCAT 1611-3	
5%Pd/Al	NCAT 1611-5	

HETEROGENEOUS PLATINUM CATALYSTS

Description	Grades	Applications
1%Pt/C	NCAT 2221-1 NCAT 2223-1 NCAT 2423-1 NCAT 8120-1	Hydrogenation of ✓ Aliphatic and Aromatic Nitro to Amine ✓ Selective Hydrogenation of Halogenated Nitro Compounds, ✓ Aromatic Nitro Phenol to Corresponding Aminophenol, ✓ Aromatic Nitro to Amine Without Dehalogenation ✓ CC Double Bonds, ✓ Aldehyde & Ketone to Alcohol, ✓ Reductive Alkylation (Imine Hydrogenation) ✓ Bamberger Rearrangement
3%Pt/C	NCAT 2221-3 NCAT 2241-3 NCAT 2323-3	
3%Pt/C	NCAT 2123AS	
5%Pt/C	NCAT 2221-5 NCAT 2121-5 NCAT 2143-5 NCAT 2312-5	
Pd+Pt	NCAT 7541	
1%Pt/Alumina	NCAT 2621-1	✓ Aldehyde and Ketone to Alcohol ✓ CC Double Bond Hydrogenation ✓ Hydrogenation of Nitro to Amine ✓ Hydrogenation of Imine to Amine
5%Pt/Alumina	NCAT 2621-5	

PRECIOUS METAL CATALYSTS



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HETEROGENEOUS PALLADIUM CATALYSTS FOR FIX BED

Description	Grades	Applications
5%Pd/C	NCAT 11021-5	Hydrogenation of ✓ Aliphatic and Aromatic Nitro to Amine ✓ Debenzylation ✓ CC Double Bonds ✓ Aldehyde & Ketone to Alcohol ✓ Reductive Alkylation (Imine Hydrogenation)
10%Pd/C	NCAT 11010-10	

HETEROGENEOUS RUTHENIUM CATALYSTS

Description	Grades	Applications
3%Ru/C	NCAT 3111-3	Hydrogenation of ✓ Substituted Aromatic Rings (e.g., Aniline to MCHA & DCHA, PTBP to TBCH, OTBT to OBCH)
5%Ru/C	NCAT 3111-5	
3%Ru/Al	NCAT 3611-3	✓ Aromatic rings to cyclohexenes ✓ Fused Aromatic Rings ✓ α -Pinene to cis-Pinane
5%Ru/Al	NCAT 3611-5	

PRECIOUS METAL CATALYSTS

HETEROGENEOUS RHODIUM CATALYSTS

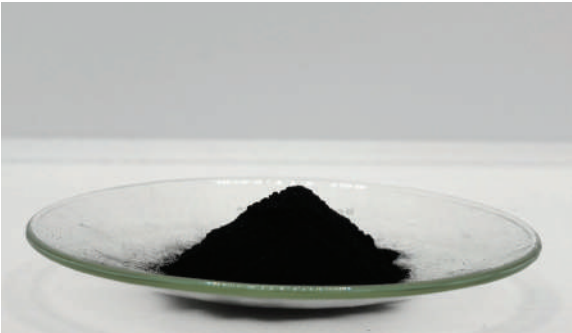
Description	Grades	Applications
5%Rh/C	NCAT 4111-5	Heteroaromatic Ring Hydrogenation

FUEL CELL CATALYSTS

Description	Grades	Applications
20%Pt/C Black	NCAT FCb0P-Pt20	Fuel Cell Catalyst
40%Pt/C Black	NCAT FCb0P-Pt40	

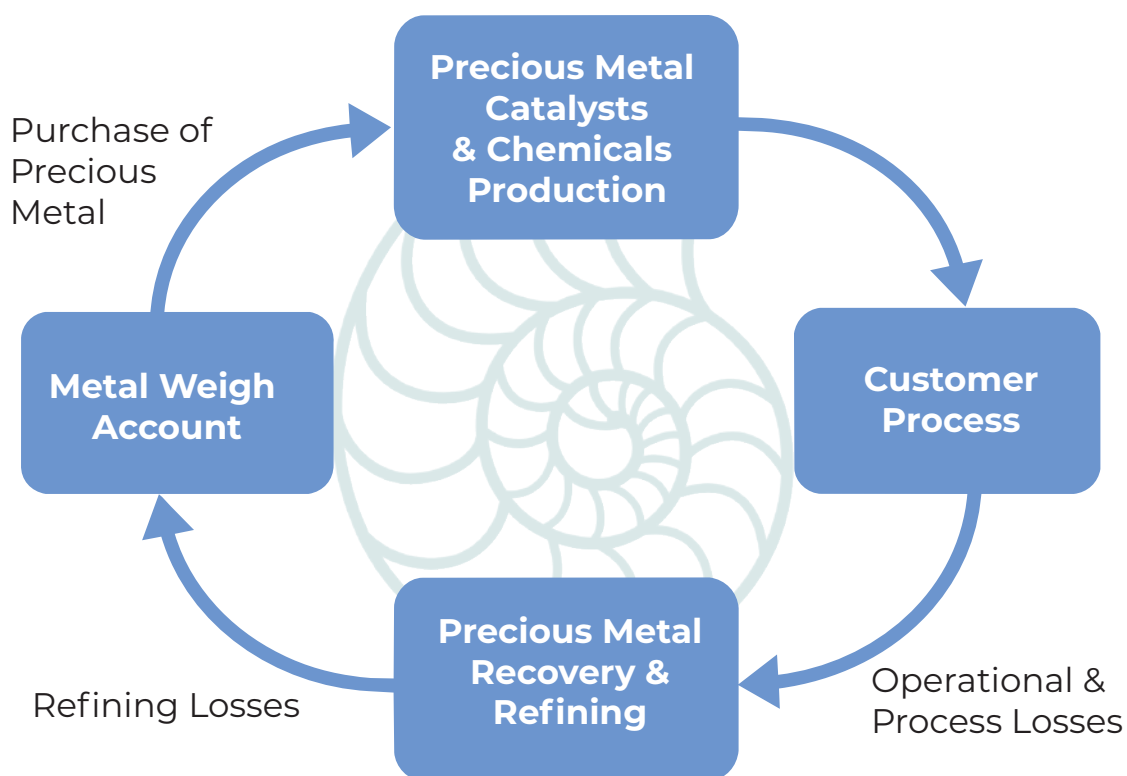
HETEROGENOUS DEOXO CATALYSTS

Description	Grades	Applications
0.3%Pd/Al ₂ O ₃ (Spheres or Extrudates)	NCAT DA0E-Pd0.3, NCAT DA0S-Pd0.3	✓ Removal of Oxygen from Gases ✓ High Purity N ₂ Generation
0.5%Pd/Al ₂ O ₃ (Spheres or Extrudates)	NCAT DA0E-Pd0.5, NCAT DA0S-Pd0.5	✓ Removal of Hydrogen from Gases



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PRECIOUS METAL RECOVERY



We also recover **Ruthenium & Iridium** spent catalysts!

FERROFLUIDS

APPLICATIONS:

- Modify magnetic and conductivity properties for cooling application in electrical devices.
- Seal moving parts.
- Provide precise motion control.
- Neocat has already reached to 50 lit Scale.



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NEXT PHASE OF DEVELOPMENT

- Transition the manufacturing process from the current 1–10 litre range to a 100–1000 litre capacity.
- Develop various types of Ferrofluids for different applications.

OUR NEW PRODUCTION SITE: NEOCAT PVT. LTD.

Neocat, based in Ambernath, Maharashtra, develops and manufactures a diverse portfolio of catalysts for chemical manufacturing, spanning **Precious metal** (Pd, Pt, Ru and Rh) heterogeneous and homogeneous catalysts, **Skeletal Nickel Catalyst** (Raney-type) hydrogenation catalysts and **shaped catalysts** for fixed-bed applications. Our catalyst solutions support selective, efficient and scalable processes across conventional and emerging green and energy-transition chemistries (**Fuel Cells**), complemented by integrated precious metal recovery solutions.



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Our R&D and Production Facilities

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Our Websites and Updated Catalyst Guide
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