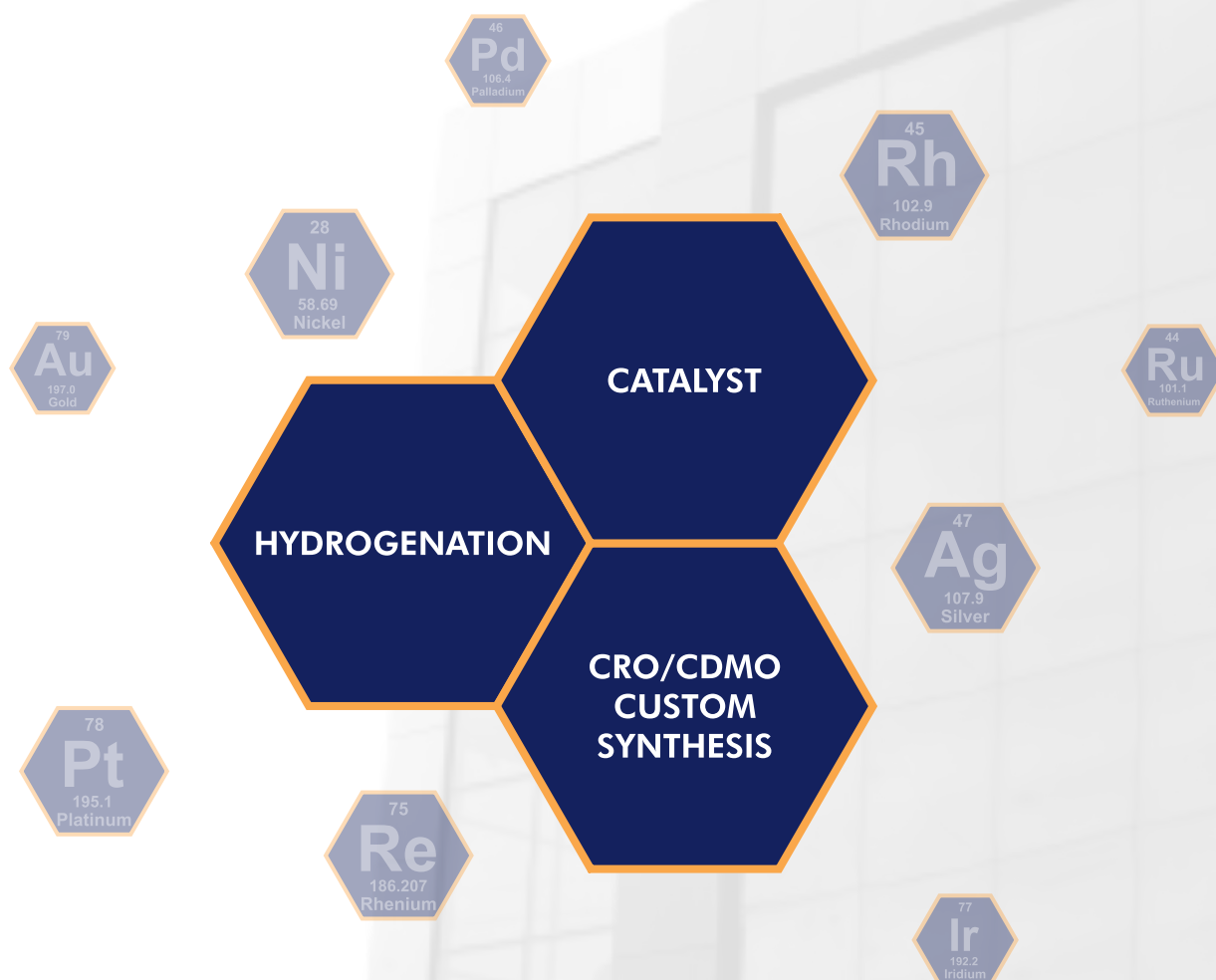


Omkar Lab

INNOVATIVE IDEAS FOR YOU

Under one roof with **ENDLESS** solutions



INNOVATIVE **CATALYSTS**
& **HYDROGENATION** Facilities



About Us

We are ISO 9001-2015 Company established as a manufacturer of superior quality, highly selective, wide range of Nickel and precious metal homogeneous and heterogeneous catalysts for industrial application since 2015. The company is known for its unwavering focus on using state-of-the-art technology and providing and providing exemplary services. Our Catalysts are supplied to India's top most API manufacturers, API intermediaries. Agrochemicals and Fine & Bulk Chemical Industries.

Precious Metal Supported Catalyst

Palladium

Type	Metal Loading %	Support Material	Application
0510CC	5	Calcium Carbonate	Selective hydrogenation e.g. alkyne to alkene
0510A	0.5, 1, 2, 3, 5, 10	Alumina powder	Di-imine to Diamine (Dibed process), Ring Hydrogenation(single, doubled), Reductive amination.
0510H	3,5,10	Carbon powder/paste	Debenzylation, Hydrogenolysis, Hetroaromatic, C-C and C-O cleavage, Alkene hydrogenation.
0510M	5,10	Carbon powder/paste	C-C Bond Hydrogenation, Double-Triple Bond, C-N Cleavage, Nitrile, Amines, Oximes, Nitro-Nitroso group,Dehydrogenation, Dehalogenation, Hetroaromatic Hydrogenation.
1023M	5,10	Carbon powder/paste	Hydrogenation of aromatic and aliphatic nitro groups, Reductive alkylation/amination. Hydrogenation of aromatic nitriles to 1°-amines, Selective Oxidation, C-C Bond Hydrogenation, Double-Triple Bond, C-N Cleavage, Nitrile, Amines, Oximes, Nitro-Nitroso group,Dehydrogenation, Dehalogenation, Hetroaromatic Hydrogenation.
1023H	10	Carbon powder/paste	Aromatic nitro group hydrogenation, Hydrogenation of alkenes to alkanes, Debenzylation, Hydrogenolysis, Hetroaromatic, C-C and C-O cleavage, Alkene hydrogenation.
0710H	5,10	Carbon powder/paste	Debenzylation, Hydrogenolysis, Hetroaromatic, C-C and C-O cleavage, Alkene hydrogenation.
05BSM	5	Barium sulphate	Rosmund Reduction
05BSH	5	Barium sulphate	Rosmund Reduction
05BCH	5	Barium sulphate	Rosmund Reduction
0710M	5,10	Carbon powder/paste	Hydrogenation of aromatic and aliphatic nitro groups, Reductive alkylation/amination. Hydrogenation of aromatic nitriles to 1°-amines, Selective Oxidation
1023OH, 0710OH, 0515OH	5%(OH)2, 10%(OH)2, 20%(OH)2	Carbon powder/paste	Debenzylation (Pearlman's catalyst)
152	20% Palladium hydroxide	Carbon powder/paste	Debenzylation

Platinum

Type	Metal Loading %	Support Material	Application
05PTM	1,2,3,5,10	Carbon powder/paste	Schiff's base and nitro hydrogenation, Aromatic ring hydrogenation, Hydrogenation of alkenes, aliphatic carbonyls, Selective oxidation, HaloNitro Aromatic Hydrogenation
05PTH	1,5,10	Carbon powder/paste	Pyridine ring hydrogenation, Hydrogenation of halonitroaromatics and aliphatic nitro groups., p-aminophenol production from nitrobenzene.
0102PV	1%Pt 2% V	Carbon powder/paste	HaloNitro Aromatic Hydrogenationz

Rhodium

Type	Metal Loading %	Support Material	Application
05RHC	5	Carbon Powder/Paste	Aromatic Ring Hydrogenation, Hydrogenation of alkenes to alkanes
05RHA	5	Alumina Powder	Aromatic Ring Hydrogenation, Hydrogenation of alkenes to alkanes

Ruthenium

Type	Metal Loading %	Support Material	Application
05RUC	5	Carbon Powder/Paste	Aromatic Ring Hydrogenation, Hydrogenation of aliphatic carbonyls, sugar, selective oxidation
05RUA	5	Alumina Powder	Aromatic Ring Hydrogenation, Hydrogenation of aliphatic carbonyls, sugar, selective oxidation

Mix Metal

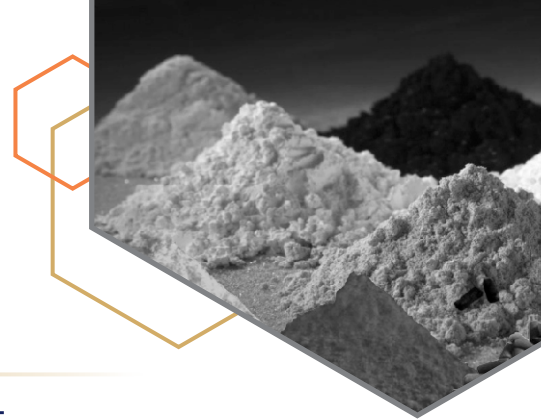
05M1	2.5%Pd, 2.5% Pt	Carbon Powder/Paste	Hydrogenation of nitrogroups, Hydrogenation of alkenes
05M2	8% Pd, 2%Pt	Carbon Powder/Paste	Selective Hydrogenation of nitrate to hydroxylamine
0401DT	4%Pd, 1% Pt	Carbon Powder/Paste	Nitro Reduction
0501DU	5%Pd, 1% Ru	Carbon Powder/Paste	Nitro Reduction
0501DU	5%Pd, 3%Ru	Carbon powder/paste	
0401UH	4% Ru, 1% Rh	Alumina	Ring Hydrogenation
2501UE	2.5 Ru, 1% Re	Alumina	Ring Hydrogenation

*Above metals on other inert support material viz., Silica, Asbestos, Barium sulphate, etc. can be supplied as per your specific requirement

Precious Metal Catalysts/Compound

(Palladium, Platinum, Ruthenium, Rhodium, Silver & Gold)

Manufacturer of Precious Metal Catalysts support on Carbon, Calcium Carbonate, Barium Sulfate, alumina etc and salts like Chloride, Sulfates, Nitrates, Acetate etc. as well as cross Coupling Catalyst ligands like, Tetrakis (TTP), Bis (TTP), DBA, DPPF, TCHP etc. These catalysts, salts and compounds are used in Hydrogenation, Dehydrogenation, Selective oxidation, Cross Coupling, Carbonylation, Hydrosilylation, Hydroformylation, Asymmetric synthesis, Fixed bed catalysts and electroplating etc.



Cross-Coupling Catalyst

Palladium

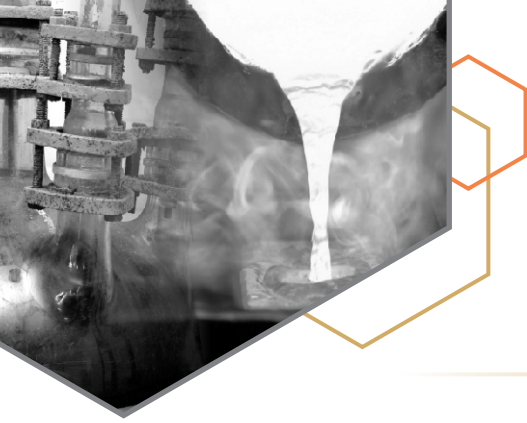
Formula	Name	CAS No.	%Metal	Mol. Weight
C ₃₆ H ₃₀ Cl ₂ P ₂ Pd	Bis(triphenylphosphine)palladium(II) dichloride	13965-03-2	15.16	701.9
C ₇₂ H ₆₀ P ₄ Pd	Tetrakis(triphenylphosphine)palladium(0)	14221-01-3	9.20	1155.59
PdCl ₂ [(C ₆ H ₅) ₂ P(CH ₂) ₂ P(C ₆ H ₅) ₂]	[1,2-Bis(diphenylphosphino)ethane]dichloropalladium(II)	19978-61-1	18.48	575.75
C ₂₈ H ₂₈ Cl ₂ P ₂ Pd	1,4-Bis(diphenylphosphino)butane-palladium(II) Dichloride	29964-62-3	17.62	603.8
C ₃₄ H ₂₈ P ₂ FePdCl ₂ CH ₂ Cl ₂	[1,1'-Bis(diphenylphosphino)ferrocene]dichloropalladium(II), dichloromethane	95464-05-4	13.00	816.64
C ₃₆ H ₆₆ Cl ₂ P ₂ Pd	Dichlorobis(tricyclohexylphosphine)palladium(II)	29934-17-6	14.42	738.19
C ₃₆ H ₂₈ Cl ₂ OP ₂ Pd	Dichloro[bis(diphenylphosphinophenyl)ether]palladium(II)	205319-06-8	14.87	715.89
C ₂₂ H ₃₆ Cl ₂ FeP ₂ Pd	(1,1'-Bis(diisopropylphosphino)ferrocene)dichloropalladium	215788-65-1	17.87	595.64
C ₂₇ H ₂₆ Cl ₂ P ₂ Pd	[1,3-Bis(diphenylphosphino)propane]palladium(II) dichloride	59831-02-6	18.04	589.77
C ₃₄ H ₅₂ Cl ₂ P ₂ FePd	[1,1'-Bis(di-cyclohexylphosphino)ferrocene]dichloropalladium(II)	917511-90-1	14.08	755.9
C ₃₂ H ₅₆ N ₂ Cl ₂ P ₂ Pd	Bis(di-tert-butyl(4-dimethylaminophenyl)phosphine)dichloropalladium(II)	887919-35-9	15.03	708.08
C ₃₉ H ₃₂ OP ₂ Cl ₂ Pd	Dichloro[9,9-dimethyl-4,5-bis(diphenylphosphino)xanthene]palladium(II)	205319-10-4	14.08	755.95
C ₃₄ H ₂₈ P ₂ FePdCl ₂	[1,1'-Bis(diphenylphosphino)ferrocene]dichloropalladium(II)	72287-26-4	14.54	731.74
C ₁₄ H ₁₀ Cl ₂ N ₂ Pd	Bis(benzonitrile)dichloropalladium(II)	14220-64-5	27.74	383.57
C ₄ H ₆ Cl ₂ N ₂ Pd	Bis(acetonitrile)dichloropalladium(II)	14592-56-4	41.02	259.43
C ₈ H ₁₂ N ₄ B ₂ F ₈ Pd	Tetrakis(acetonitrile)palladium(II) tetrafluoroborate	21797-13-7	23.96	444.24
C ₁₀ H ₁₄ O ₄ Pd	Palladium(II) acetylacetonate	14024-61-4	34.93	304.64
C ₈ H ₁₂ Cl ₂ Pd	Dichloro(1,5-cyclooctadiene)palladium(II)	12107-56-1	37.27	285.5
C ₃₄ H ₂₈ O ₂ Pd	Bis(dibenzylideneacetone)palladium(0)	32005-36-0	18.51	575.02
C ₅₁ H ₄₂ O ₃ Pd ₂	Tris(dibenzylideneacetone)dipalladium(0)	51364-51-3	23.24	915.73
C ₅₁ H ₄₂ O ₃ Pd ₂ CHCl ₃	Tris(dibenzylideneacetone)dipalladium(0).Chloroform	52522-40-4	20.56	1035.11
C ₆ H ₁₀ Pd ₂ Cl ₂	Allylpalladium(II) chloride dimer	12012-95-2	58.17	365.89
C ₄₀ H ₃₀ O ₄ P ₂ Pd	Bis(triphenylphosphine)palladium(II) Diacetate	14588-08-0	14.21	749.08
C ₃₄ H ₂₅ Cl ₂ FeP ₂ Pd½ C ₃ H ₆ O	Dichloro[1,1-bis(diphenylphosphino)ferrocene]palladium(II) acetone	138549-82-3	13.58	783.74
C ₄ F ₆ O ₄ Pd	Palladium(II) trifluoroacetate	42196-31-6	32.01	332.45
C ₁₈ H ₁₆ Cl ₂ Pd ₂	Palladium(π-cinnamyl) chloride dimer	12131-44-1	41.08	518.08

Platinum

Formula	Name	CAS No.	%Metal	Mol. Weight
[PtC ₁₂ (CH ₃ CN) ₂]	cis-Bis(acetonitrile)dichloroplatinum(II)	13869-38-0	56	348.09
[Pt(C ₆ H ₇ O ₂) ₂]	Platinum(II) acetylacetonate	15170-57-7	49.6	393.29
[(C ₆ H ₅) ₃ P] ₂ PtCl ₂	cis-Dichlorobis(triphenylphosphine)platinum(II)	15604-36-1	24.67	790.56
[(C ₂ H ₅) ₂ S] ₂ PtCl ₂	cis-Dichlorobis(diethyl sulfide)platinum(II)	15442-57-6	43.7	446.36
PtCl ₂ [(C ₂ H ₅) ₂ S] ₂	trans-Dichlorobis(diethylsulfide)platinum(II)	15337-84-5	43.7	446.36
Pt[P(C ₆ H ₅) ₃] ₄	Tetrakis(triphenylphosphine)platinum(0)	14221-02-4	15.67	1244.22

Rhodium

Formula	Name	CAS No.	%Metal	Mol. Weight
C ₁₅ H ₂₁ O ₆ Rh	Rhodium(III) acetylacetonate	14284-92-5	25.71	400.2
C ₁₄ H ₁₆ Cl ₂ Rh ₂	Bicyclo[2.2.1]hepta-2,5-diene-rhodium(I) chloride dimer	12257-42-0	44.64	461
C ₁₆ H ₂₄ Cl ₂ Rh ₂	(1,5-Cyclooctadiene)rhodium chloride dimer	12092-47-6	41.74	493.08
C ₁₃ H ₁₉ O ₂ Rh	(Acetylacetonato)(1,5-cyclooctadiene)rhodium(I)	12245-39-5	33.17	310.2
C ₁₆ H ₂₄ BF ₄ Rh	Bis(1,5-cyclooctadiene)rhodium(I) tetrafluoroborate	35138-22-8	25.34	406.1
C ₁₄ H ₁₆ BF ₄ Rh	Bis(norbornadiene)rhodium (I) tetrafluoroborate	36620-11-8	27.52	373.99
RhH[P(C ₆ H ₅) ₃] ₄	Hydridotetrakis(triphenylphosphine)rhodium(I)	18284-36-1	8.90	1153.06
[RhCl{P(C ₆ H ₅) ₃ }] ₃	Chloro- tris(triphenyl phosphine) rhodium(I)	14694-95-2	11.10	925.22
[RhBr{P(C ₆ H ₅) ₃ }] ₃	Bromo- tris(triphenyl phosphine) rhodium(I)	14973-89-8	10.60	969



Regeneration, Recovery & Refining (Reprocessing of Used Catalysts)

Latest technology with automated recovery and refining plant to minimize the losses which helps the customers in a big way to bring down their operational cost. Our Lab is fully equipped for all in-house testing and undertaking the same on commercial terms, and able to recover up to 99.5% of precious metal present in the spent catalysts, alloys & scraps. We have a state of art to separate each precious metal from their any form.

Cross-Coupling Catalyst

Ruthenium

Formula	Name	CAS No.	%Metal	Mol. Weight
$C_{40}H_{36}Cl_2FeN_2P_2Ru$	Dichloro[1,1-bis(diphenylphosphino)ferrocene] (2-aminomethylpyridine)ruthenium(II)	1287255-62-2	12.11	834.49
$C_8H_{12}Cl_2Ru$	Dichloro(1,5-cyclooctadiene)ruthenium(II)	50982-12-2	36.08	280.15
$C_{54}H_{45}Cl_2P_3Ru$	Dichlorotrakis(triphenylphosphino)ruthenium (II)	15529-49-4	10.54	958.85
$C_{20}H_{30}Cl_4Ru_2$	Dichloro(p-cymene)ruthenium(II) Dimer	52462-29-0	33.01	612.39
	[1,3-Bis(diphenylphosphino)propane]ruthenium(II) dichloride			
	(1,1'-Bis(diisopropylphosphino)ferrocene)dichlororuthenium			

Iridium

Formula	Name	CAS No.	%Metal	Mol. Weight
$C_{32}H_{56}Ir_2Cl_2$	Chlorobis(cyclooctene)iridium(I)dimer	12246-51-4	42.90	896.13
$C_{18}H_{30}Ir_2O_2$	Bis(1,5-cyclooctadiene)dimethoxydiiridium	12148-71-9	58.00	662.87
$C_{16}H_{24}Ir_2Cl_2$	Chloro(1,5-cyclooctadiene)iridium(I) dimer	12112-67-3	57.23	671.71
$C_{20}H_{20}N_2ClIr \cdot C_4H_8O$	Chloro(1,5-cyclooctadiene)(1,10-phenanthroline)iridium(I)	41396-69-4	32.68	588.17
$C_{20}H_{30}Ir_2Cl_4$	Dichloro(pentamethylcyclopentadienyl)iridium(III) dimer	12354-84-6	48.25	796.69
$C_{13}H_{19}IrO_2$	(Acetylacetonato)(1,5-cyclooctadiene)iridium(I)	12154-84-6	48.11	399.51
$C_{16}H_{24}BF_4Ir$	Bis(1,5-cyclooctadiene)iridium (I) tetrafluoroborate	35138-23-9	38.80	495.39

Nickel

Formula	Name	CAS No.	%Metal	Mol. Weight
$C_{27}H_{26}C_{12}NiP_2$	[1,3-Bis(diphenylphosphino)propane]dichloronickel(II)	15629-92-2	10.83	542.05
$C_{34}H_{38}Cl_2FeNiP_2$	[1,1'-bis(diphenylphosphino)ferrocene]dichloronickel (II)	67292-34-6	8.46	694.1
$[(C_6H_5)_3P]_2NiCl_2$	Bis(triphenylphosphine)nickel(II) dichloride	14264-16-5	8.97	654.17
$Ni(C_5H_7O_2)_2$	Nickel(II) acetylacetonate	3264-82-2	22.85	256.91
$C_{16}H_{24}Ni$	Bis(1,5-cyclooctadiene)nickel(0)	1295-35-8	21.34	275.06
$C_{36}H_{66}Cl_2NiP_2$	Bis(tricyclohexylphosphine)nickel(II) dichloride	19999-87-2	8.5	690.46

Precious Metal and Salts & Compounds

Palladium

Compound	Name	CAS No.	% Metal	Application
Pd	Palladium Metal	7440-05-3	99.9	Catalyst Preparation
Pd	Palladium Black	7440-05-3	98	Catalyst
PdO	Palladium (II) Oxide	1314-08-5	87	Catalyst Reduction in organic synthesis
PdCl ₂	Palladium Chloride	7647-10-1	60	Manufacturing of Catalyst
Pd(NO ₃) ₂ ·nH ₂ O	Palladium(II) nitrate Solution	10102-05-3	46	Catalyst Preparation
(NH ₄) ₂ [PdCl ₆]	Ammonium Hexachloropalladate (IV)	19168-23-1	30	Plating Chemicals
(NH ₄) ₂ [PdCl ₄]	Ammonium tetrachloropalladate(II)	13820-40-1	37	Plating Chemicals
[Pd(NO ₂) ₂ (NH ₃) ₂]	Dinitrodiamminepalladium(II) Palladium 'P' Salt	14852-83-6	46	Plating Chemicals
Na ₂ [PdCl ₄].nH ₂ O	Sodium Tetrachloropalladate(II)	13820-53-6	31	Salt Preparation
Pd(NH ₃) ₂ Cl ₂	Dichlorodiammine palladium(II)	14323-43-4	50	Plating Chemicals
[Pd(OAc) ₂] ₃	Palladium(II) Acetate Trimer	53189-26-7	47.4	Carbonylation, Heck Coupling
PdBr ₂	Palladium(II) bromide	13444-94-5	40	Precatalyst

Catalysts Screening & Process Optimisation

We offer a range of catalytic services to support customers throughout the development, scale-up and commercial implementation stages of a project. We focus on delivering solutions that reduce cost, process steps and waste while maximizing the performance of your reactions.

Our Services include : Catalyst Screening, Increased catalyst performance, Process Optimization, Efficient technology transfer, scale up, research & development.



Precious Metal and Salts & Compounds

Platinum

Compound	Name	CAS No.	% Metal	Application
Pt	Platinum Metal	7440-06-4	99.90	
Pt	Platinum Black	7440-06-4	98.50	Catalyst
PtO ₂ .nH ₂ O	Platinum (IV) Oxide	1314-15-4	80	Hydrogenation Catalyst, Suitable for Double and Triple Bond, Aromatic Cabonyls, Nitriles Etc.
PtCl ₂	Platinum (II) Chloride	10025-65-7	72	Hydrosilylation
H ₂ [PtCl ₆].nH ₂ O	Chloroplatinic acid, Hydrogen hexachloroplatinate(IV) Solution	16941-12-1	39 - 42	Hydrosilylation
(NH ₄) ₂ [PtCl ₆]	Ammonium hexachloroplatinate(IV)	16919-58-7	44	Salt
(NH ₄) ₂ PtCl ₄	Ammonium tetrachloroplatinate(II)	13820-41-2	44	Plating
[Pt(NO ₂) ₂ (NH ₃) ₂]	Dinitrodiammine Platinum (II), Platinum 'P' Salt	14286-02-3	33	Plating
H ₂ [PtCl ₆]	Hydrogen hexachloroplatinate(IV)	16941-12-1	25	Catalyst, Electroplating
PtCl ₄	Platinum(IV) chloride	13454-96-1	55	Catalyst, Electroplating
K ₂ PtCl ₆	Potassium hexachloroplatinate(IV)	16921-30-5	40	Raw material for cisplatin
K ₂ PtCl ₄	Potassium tetrachloroplatinate(II)	10025-99-7	47	Used to make precious metallic cancer drug

Ruthenium

Compound	Name	CAS No.	% Metal	Application
Ru	Ruthenium Metal Powder	7440-18-8	99.90	
Ru	Ruthenium Black	7440-18-8	98.5	Catalyst
RuCl ₃	Ruthenium Trichloride Anhydrous	10049-08-8	48	Oxidising Agent
RuCl ₃ .nH ₂ O (n~2)	Ruthenium (iii) Chloride, hydrated	14898-67-0	39	Catalyst Precursor
RuO ₂ .H ₂ O	Ruthenium (IV) Oxide Hydrated	3274-79-7	55	Catalyst
RuO ₂	Ruthenium (IV) Oxide Anhydrous	12036-10-1	73	Dye
Cl ₆ H ₄₂ N ₁₄ O ₂ Ru ₃	Ruthenium Red	11103-72-3	34	Catalyst
[Ru(NO)(NO ₃) ₃]	Ruthenium(III) nitrosyl nitrate solution	34513-98-9	-	Catalyst
Ru ₃ C ₁₂ H ₂₈ BF ₄ O ₁₈	Ruthenium (III) Acetate	55466-76-7	35.66	Catalyst

Iridium

Compound	Name	CAS No.	% Metal	Application
Ir	Iridium Black	7439-88-5		Catalyst
IrCl ₃ .nH ₂ O	Iridium Chloride Hydrate	14996-61-3	64.4	Catalyst and plating
IrO ₂	Iridium (IV) Oxide	12030-49-8	85.7	Catalyst
(NH ₄) ₃ IrCl ₆ .nH ₂ O	Ammonium Tetrachloroiridate	15752-05-3	41.9	Catalyst
Na ₃ IrCl ₆ .nH ₂ O	Sodium Hexachloroiridate (III)	123334-23-6	40.6	Catalyst
K ₂ IrCl ₆	Potassium Hexachloroiridate (IV)	16920-56-2	39.8	Plating
H ₂ [IrCl ₆].nH ₂ O	Hydrogen Hexachloroiridate(IV) Hydrate	16941-92-7	38-45	Catalyst and plating

Rhodium

Compound	Name	CAS No.	% Metal	Application
Rh	Rhodium Powder	7440-16-6	99.9	
Rh	Rhodium Black	7440-16-6	98	Catalyst
RhCl ₃ .nH ₂ O	Rhodium(III) chloride	20765-98-4	39	Surface Coating, Catalyst precursor
Rh ₂ (SO ₄) ₃	Rhodium(III) sulfate 10% solution	10489-46-0	41.66	Plating
[Rh(C ₇ H ₁₅ COO) ₂] ₂	Rhodium II Octanoate Dimer	73482-96-9	26.46	Cyclopropanation, Carbene reaction
[Rh(CO ₂ CH ₃) ₂] ₂	Rhodium(II) acetate dimer	15956-28-2	46.57	Cyclopropanation of alkenes, Carbene reaction
Rh(NO ₃)	Rhodium (III) Nitrate in aqueous solution	10139-58-9		Catalyst



Commercial Testing Lab

Our state of the art analytical laboratory is not only equipped with chemical analysis system but also equipment like AAS, ED-XRF, OES, GC, HPLC, Surface area & Particle size Analyzer, Autoclave, Activity measuring device, Continuous loop and fix bed reactor, etc. to support quality testing.

Silver

Compound	Name	CAS No.	% Metal	Application
Ag	Sliver Metal Powder	7440-22-4	99.99	Catalyst
AgCl	Silver (I) Chloride	7783-90-6	75.26	Photoghraphic films
AgNO ₃	Silver (I) Nitrate	7761-88-8	63.5	Silver Plating, Photography, Mirrors
Ag ₂ O	Silver(I) oxide	20667-12-3	93	Catalyst
AgI	Silver(I) iodide	7783-96-2	45.95	Silver Based Photography
AgF	Silver(I) Fluoride	7775-41-9	85	Dental Use
AgBr	Silver bromide	7785-23-1	57.44	Light Sensitive Sunglasses
AgCOOCH ₃	Silver acetate	563-63-3	64.63	Antismoking Agent
Ag ₂ CO ₃	Silver carbonate	534-16-7	78.23	Koenigs-Knorr Reaction
AgCOOCH(OH)CH ₃	Silver lactate	15768-18-0	50-55	Antibacterial
Ag ₂ SO ₄	Silver sulfate	10294-26-5	69	Plating
Ag ₂ S	Silver Sulphide	21548-73-2	87.06	Antibacterial
Ag ₃ PO ₄	Silver Orthophosphate	7784-09-0	77.3	Plating
AgBF ₄	Silver tetrafluoroborate	14104-20-2	55.4	Lewis Acid

Gold

Compound	Name	CAS No.	% Metal	Application
Au	Gold Powder	7440-57-5	99.9	
AuCl	Gold(I) Chloride	10294-29-8	84.75	Salt
(NH ₄)AuCl ₄ .nH ₂ O	Ammonium tetrachloroaurate(III) hydrate	13874-04-9	55.2	Catalyst
HAuCl ₄ · ₃ H ₂ O	Hydrogen tetrachloroaurate(III)	16961-25-4	50	Plating and Pharmaceuticals
NaAuCl ₄ · ₂ H ₂ O	Sodium tetrachloroaurate(III) dihydrate	13874-02-7	49.5	Catalyst
KAuCl ₄	Potassium tetrachloroaurate(III)	13682-61-6	52.1	Plating
AuI	Gold(I) iodide	10294-31-2	60.8	Pharmaceutical

Nickel Oxide

Grade	Nickel Content	Application
Green	NLT75%	Ceramic Industries, Ni-Steel Alloy, Solar Cells
Black	70-72%	Nickle ion Batteries, Nickel Catalyst, powder ind.

Hydrogenation Facility

Reactor size (working vol. Ltrs.)	Temperature	Pressure
100 (Loop)	RT to 150'c	Upto 45 kg
260	RT to 180'c	Upto 40 kg
1000	RT to 180'c	Upto 25 kg
2000	RT to 180'c	Upto 25 kg
3000	RT to 180'c	Upto 25 kg
5000	RT to 180'c	Upto 25 kg
3000 GLR	RT to 130'c	Upto 5 kg

* Capacity - 6000 M.T. per Annum

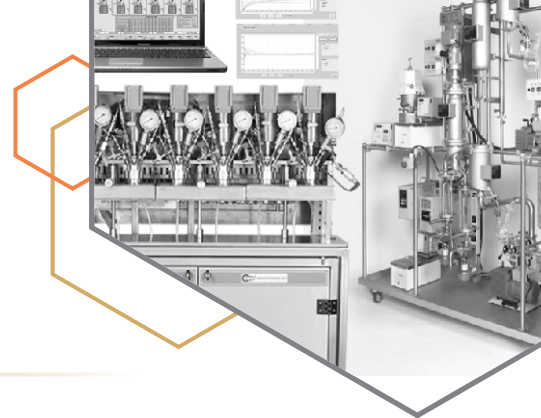
Other utilities : GLR, SSR, Centrifuge, Dryer etc.

Continuous Hydrogenation

We offer customers fix bed / pack bed hydrogenation technology with wide range of catalytic Support and Technology Transfer .We help them from lab trials, pilot level and scale-up and commercial implementation stages of a project. We focus on delivering solutions that reduce cost, process steps and waste while maximizing the performance of your reactions.

Hydrogenation facility from gram scale to 5.0 KL, to reduce the costumer's catalyst inventory.

The company has expertise in catalytical hydrogenation and the semi-automilse hydrogenation facility from gram scale to tons scale on contract basis.



Raney Nickle Catalyst (Active)

Grade	Bulk Density in gms/ml.	Activity With Nitrobenzene (For 1.0 gms of Catalyst on dry basis)	Application
OmCat 6219	1.50 to 1.60	Average uptake of Hydrogen per minute shall BE 70-75 ml	Nitro to Amino, Oxime to Amine, Carbonyl to Alcohol, Debenzylation Ring Hydrogenation.
OmCat 1819	1.50 to 1.70	Average uptake of Hydrogen per minute shall be 65 to 70 ml	Aldehyde to Alcohol, Saturation to Olifinic double bond.
OmCat 1602	1.70 to 2.00	Average uptake of Hydrogen per minute shall be 60-65 ml	Nitrils to amines with higher recycles Ammonolysis of Alcohols dehydrogenation (high temp for longer period)
OmCat 2310	1.25 to 1.45	Average uptake of Hydrogen per minute shall be 100 to 120	Aromatic Nitrile to Amine, Carbonyl to Alcohol, Fatty Nitrile to Amines, Aldehyde to Alcohol
OmCat 6599	1.8 to 2.0	Average uptake of Hydrogen per minute shall be 40-50	Aromatic Nitrile to Amine, Polyols: Dextrose to Sorbitol, Mannitol, Xylitol etc, Aromatic Nitrile in presence of double bond, Oxidation reactions, Fatty Nitrile to Amine
OmCat 1489	1.8 to 2.0	Average uptake of Hydrogen per minute shall be 35-45	Aromatic Nitrile to Amine, Aldehyde to Alcohol, Cyclization reactions dehydrogenation (high temp for longer period)
OmCat 1498	1.6 to 1.8	Average uptake of Hydrogen per minute shall be 45-60	Dehydrogenation reaction, Sturdy catalyst which withstands high temperature, pressure & alkaline conditions, Aromatic Di-Nitro to Di-Amino

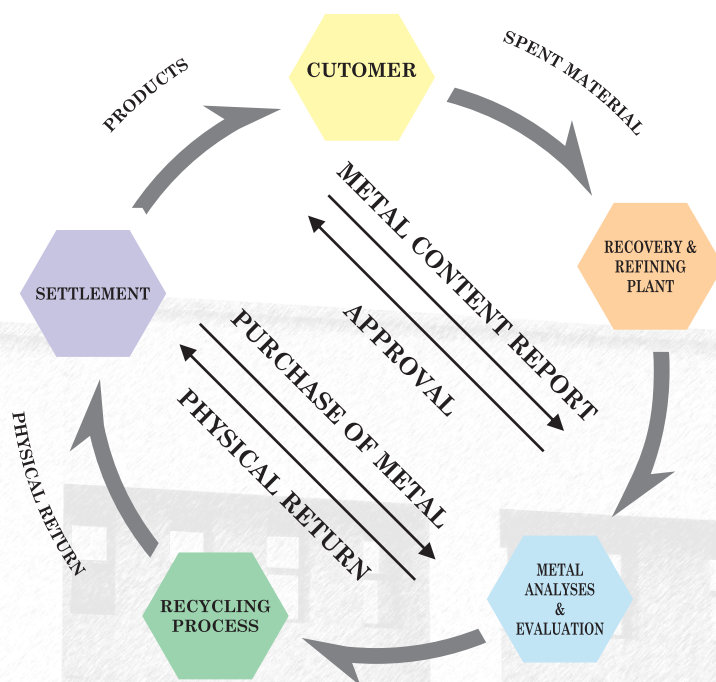
Fixed Bed Catalyst

Catalyst Type	Support material	Nominal Size/Shape	PGM	Loading	Application
OMK-DA1235	Alumina	3mm to 5 mm Tablets	Pd	0.1,0.2,0.3,0.5,1,2	Hydrogenation/Dehydrogenation, Hydrogenation of Phenol, Amination of Ketones, Olefins, Aromatic Ring Hydrogenation
OMK-DA35	Alumina	4-8 mm Spheres	Pd	0.3, 0.5	Hydrogenation/Dehydrogenation
OMK-DC8	Carbon	3mm Extrudate	Pd	0.8	Hydrogenation of alkynes and Alkenes to Alkanes, Hydrodehalogenation
OMK-DA5	Alumina	3mm Extrudate	Pd	0.5	Hydrogenation/ Dehydrogenation, Selective Hydrogenation of Dienes, Phenol, Olefines
OMK-DA235	Alumina	4-6 mm Spheres	Pd	0.2,0.3,0.5	Hydrogenation of Olefines
OMK-DC12	Carbon	3mm Extrudate	Pd	1, 2	Reductive Alkylation, Hydrogenation/Dehydrogenation, Hydrogenation of Olefines, Phenol
OMK-DUA1	Alumina	3mm Tablets	Pd/Ru	0.1/0.1	Alkenes to Alkane Hydrogenation
OMK-TA35	Alumina	3mm -5mm Tablets	Pt	0.3,0.5	Dehydrogenation, Aromatic Ring, Hydrogenation Benzene to Cyclohexane, Decomposition of Hydrogen Peroxide
OMK-TA1	Alumina	4mm-8mm Spheres	Pt	1	Amination of Carbonyls, Dehydrogenation of Alcohol.
OMK-UA5	Alumina	3 mm Tablets	Ru	0.5	Hydrogenation of Aliphatic Carbonyls, Aromatic Ring
OMK-UC3	Carbon	2 mm Extrudate	Ru	3	Hydrogenation of Aliphatic Carbonyls, Olefins, Aromatic Ring
OMK-US3	Silica	1.5 mm Extrudate	Ru	3	Hydrogenation of Carbonyls
OMK-HA5	Alumina	3 mm Tablets	Rh	0.5	Hydrogenation of Aromatics
OMK-KNA50	Alumina, Kieselguhr	Powder/ Tablet	Ni	50	Hydrogenation
OMK-KNA55	Alumina, Kieselguhr	Powder/ Tablet	Ni	55	Hydrogenation
OMK-KNA60	Alumina, Kieselguhr	Powder/ Tablet	Ni	60	Hydrogenation

Bi-metallic, Tri-metallic, Multi-metallic Fixbed Catalysts by precipitation and coating routes are manufactured as per requirement of Clients action demand (metals involve like, Pd ,Pt,Ag,Ru,Rh,Ir,Ni, Cu,Co, Cr,Ti, V, etc..)

WHY OMKAR LAB ?

- One step solution towards your hydrogenation needs.
- All type of hydrogenation catalyst manufacturer.
- In-house process development & catalyst screening facility.
- Pilot scale manufacturing facility.
- Fixed bed hydrogenation facility.
- Gram to tons level hydrogenation contract manufacturing facility.
- Total analytical testing backup with sophisticated instruments.
- Commercial testing services.
- Tailor-made catalysts for optimum productivity in your process.



Authorized Recycler

Recycling of precious metals from the spent precious metal catalysts and its usage for making fresh precious metal catalysts which helps the customers in a big way to bring down the cost of operation.

We buy Used/Unused Catalysts, Salts, Compound of Palladium, Platinum, Rhodium, Ruthenium, Nickel etc. In any form



HEAD OFFICE / & MANUFACTURING FACILITY - I

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