



metalchem

Mfrs. of: Nickel Catalyst, Custom Catalyst & Salts

“Catalytic ideas for a better world”

Welcome to Metal Chem

ABOUT US :

Metal Chem is an ISO 9001:2015 certified HALAL & KOSHER compliant an Indian Chemical company based in Mumbai & having its plant located in Badlapur MIDC. The plant is spread across 12,000 sq feet. The company was established in the year 2005, with an aim to provide high quality Nickel and Cobalt based salts like Nickel Sulphate, Nickel Carbonate, Nickel Oxide & various other derivatives. The company served various chemical domains like pharmaceuticals, fine & specialty chemicals, automotive companies & others. With over a decade of experience coupled with vast technological expertise & in depth knowledge about Nickel Salts, in the year of 2019 Metal Chem ventured into manufacturing and supply of Nickel Catalyst, specialty catalyst & salts. The company's strength lies in its unique offering of range of catalyst and services.

These catalysts finds its application in hydrogenation of API'S, intermediates, speciality chemicals, vegetable oils, fats, soaps, stearic acid, oleo chemicals, vanaspati ghee, margarine, hydrogenated castor oil, and various others oleo chemicals.

Nickle Catalyst is sold under the METCAT™ brand.

Special grades of METCAT™ brand catalysts are available for various hydrogenation reactions of edible and non-edible oils.

Our goal is to provide quality products to our customers by using latest technologies and enhance our quality from time to time. We work towards continuous improvement of our products and processes to enhance quality of product and cost competitiveness in order to build value for our customers. The company is equipped with state of the art manufacturing facilities having reactors of various sizes, supported by in house Quality Control, Quality Assurance & R & D centre. Company follows rigorous EHS policy company is highly conscious about prevention of environmental pollution and has adopted mechanism to ensure environmental protection. The employees are periodically educated about house-keeping and safety aspects pertaining to manufacturing, storage and handling as most of the products are pyrophoric in nature



VISION :

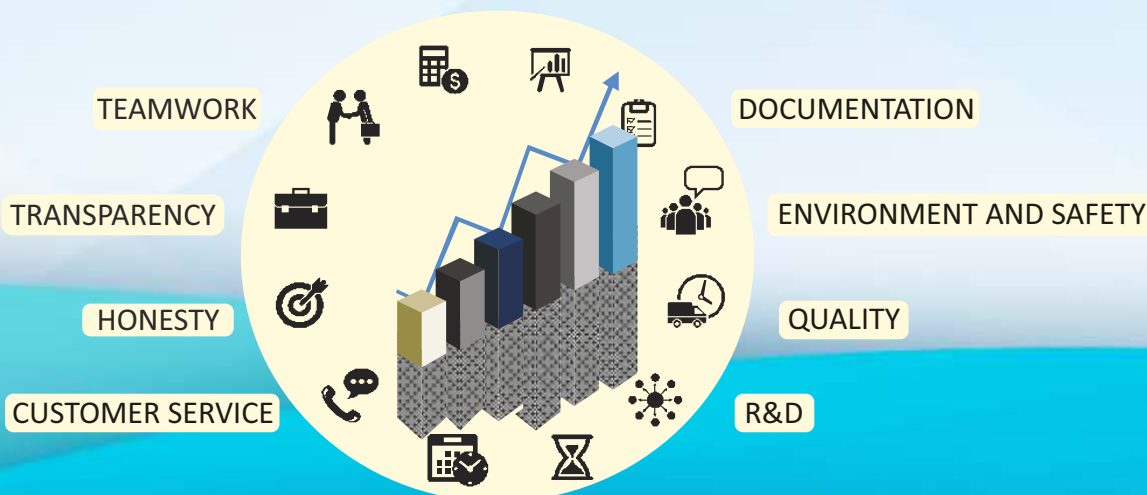
"To be recognized as a global leader and one stop solution provider for all catalyst needs by using latest technologies and processes"

MISSION :

"To assist 2025 chemical companies by providing innovative catalyst solutions by end of 2025, for betterment of life, today and tomorrow"



VALUES:



PRODUCTS OFFERED :

Products	Applications
1) Nickel Catalyst	For Hydrogenation of Oils and Fats
2) Raney Nickel Catalyst	For Hydrogenation of API'S, Intermediate, Fine chemicals & Bulk Drugs
3) Precious Metal Catalyst (Palladium, Platinum, Rhodium & Ruthenium)	For Hydrogenation of API'S, Intermediate, Fine chemicals & Bulk Drugs
4) Nickel Oxide	For Automotive Glass & Electroplating Purpose

APPLICATIONS :

- ◆ Lifesciences
- ◆ Petrochemicals
- ◆ Industrial chemicals
- ◆ Petrochemicals
- ◆ Agrochemicals & various others

Company's Products Find Application Mainly in Hydrogenation of Edible Oils and Non-edible Oils. The Manufacture of Vanaspati, Stearic Acid, Margarine, Soap Noodles, Soaps, Bulk Drugs, Drug Intermediates, Aromatic Chemicals, Specialty Chemicals, Rubber Additives, Pesticides, Dyes and Dye-intermediates, Fine Chemicals and Organic Chemicals Etc. Where Hydrogenation is the Key Reaction.

NICKEL CATALYST : THE METCAT™ BRAND

METCAT™ products are silica supported Nickel Catalysts manufactured by a innovative technology wherein the nickel particles are embedded in solid fats. They offer good conversion ratio & excellent quality of the finished good required to be hydrogenated. They are easy to use & handle. They are sold as hydrogenation catalysts for oils and fats (OFCs) in every major vegetable oil producing and/or processing countries in the world. They find application in almost every domain of life like in the manufacture of soaps, oleo chemicals, vanaspati ghee, margarine, stearic acid, hydrogenated castor oil, and others. Special grades of METCAT™ Catalysts are available for different hydrogenation reactions of edible and non-edible oils alike.



SR NO	GRADES METAL CHEM	Nickel %	APPLICATION	EXAMPLES
1	METCAT™ 888 NICKEL CATALYST METCAT™ 888	23 ± 1 NICKEL CATALYST METCAT™ 888	PARTIAL & FULL HYDROGENATION INDUSTRIAL OILS & FATTY ACID	RICE BRAN OIL, RICE BRAN FATTY ACID, PALM FATTY ACID, PALM STEARIN FATTY ACID
2	METCAT™ 999 NICKEL CATALYST METCAT™ 999	23 ± 1 NICKEL CATALYST METCAT™ 999	PARTIAL & FULL HYDROGENATION OF TRIGLYCERIDES	FOR EDIBLE OILS LIKE SOYABEAN, SUNFLOWER, MUSTARD OIL, EDIBLE RICE, BRAN OIL, CRUDE PALM OIL, MARGARINE SHORTENINGS, VANASPATI
3	METCAT™ 666 NICKEL CATALYST METCAT™ 666	20 ± 1 NICKEL CATALYST METCAT™ 666	PARTIAL & FULL HYDROGENATION OF TRIGLYCERIDES	FOR EDIBLE OILS LIKE SOYABEAN, SUNFLOWER, MUSTARD OIL, EDIBLE RICE, BRAN OIL, CRUDE PALM OIL, MARGARINE SHORTENINGS, VANASPATI
4	METCAT™ 777 NICKEL CATALYST METCAT™ 777	23 ± 1 NICKEL CATALYST METCAT™ 777	LOW TEMPERATURE HYDROGENATION OF CASTOR OIL	CASTOR OIL
5	METCAT™ 555 NICKEL CATALYST METCAT™ 555	18 ± 1 NICKEL CATALYST METCAT™ 555	PARTIAL HYDROGENATION & ISOMERISATION OF TRIGLYCERIDES & FATTY ACID	MARGARINE & SHORTENINGS

Packing : They are offered in 25kgs, 50kgs virgin grade PP woven bags with polyethylene bag liners. They are also offered in 50kgs HDPE carboys & 175kgs MS drums as per client requirement.

Storage : The catalyst should be stored in well ventilated place, away from direct sunlight.

Shelf Life : With proper storage condition, shelf life is upto 12months.



PRECIOUS METAL SUPPORTED CATALYST (METCAT Brand)



Palladium

Grade (Metal chem)	Metal Loading %	Support Material	Application
Pd108-1	5	Calcium Carbonate	Selective hydrogenation e.g. alkyne to alkene In presence of a catalyst modifier (Lindlar),
Pd108-2	5	Alumina powder	Di-imine to Diamine (Dibed process)
Pd108-3	0.3,0.5	Alumina 2.4mm spheres	Hydrogenation /Dehydrogenation, Gas Purification
Pd108-4	3,5,10	Carbon powder/paste	Debenzylation, C-N and C-O cleavage, Alkene hydrogenation
Pd108-5	5,10	Carbon powder/paste	Hydrogenation of aromatic and aliphatic nitro groups, Reductive alkylatlon/amination. Hydrogenation of aromatic nitrites to 1 ⁰ -amines
Pd108-6	5,10	Carbon powder/paste	Hydrogenation of alkynes, alkenes , Aromatic nitro, Aromatic aldehyde,ketone . Hydrogenolysis e.g. Dehalogenation, C-N & C-O cleavage, Rosenmund reduction, Rosin disproportionation, Reductive alkylation/amination, Selective oxidation.
Pd108-7	10	Carbon powder/paste	Aromatic nitro group hydrogenation, Hydrogenation of alkenes to alkanes,Debenzylation
Pd108-8	20	Carbon powder /paste	Debenzylation (Pearlman's catalyst)
Pd108-9	20% Palladiun hydroxide	Carbon powder/paste	Debenzylation (Pearlman's catalyst)



Platinum

Grade (Metal chem)	Metal Loading %	Support Material	Application
Pt195-1	3,5,10	Carbon powder/paste	Schiff's base and nitro hydrogenation, Aromatic ring hydrogenation,Hydrogenation of alkenes, aliphatic carbonyls, Selective oxidation
Pt195-2	1,5,10	Carbon powder/paste	Pyridine ring hydrogenation, Hydrogenation of halonitroaromatics and aliphatic nitro groups. , p-aminophenol production from nitrobenzene.z



Rhodium

Grade (Metal chem)	Metal Loading %	Support Material	Application
Rh103-1	5	Carbon Powder/Paste	Aromatic Ring Hydrogenation, Hydrogenation of alkenes to alkanes
Rh103-2	5	Alumina Powder	Aromatic Ring Hydrogenation.Hydrogenation of alkenes to alkanes



Ruthenium

Grade (Metal chem)	Metal Loading %	Support Material	Application
Ru101-1	5	Carbon Powder /Paste	Aromatic Ring Hydrogenation, Hydrogenation of aliphatic carbonyls. sugar. selective oxidation
Ru101-2	5	Alumina Powder	Aromatic Ring Hydrogenation. Hydrogenation of aliphatic carbonyls. sugar. selective oxidation

Mix Metal

Grade (Metal chem)	Metal Loading %	Support Material	Application
	2.5%Pd,'2.5% Pt	Carbon Powder/Paste	Hydrogenation of nitrogroups, Hydrogenation of alkenes
	8%Pd,2%Pt	Carbon Powder / Paste	Selective Hydrogenation of nitrate to hydroxylamine

CROSS-COUPLING CATALYST (METCAT Brand)



Palladium

Name	CAS No.	Formula	Mol. Weight	% Metal
Bis(triphenylphosphine)palladium(II) dichloride	13965-03-2	$C_{36}H_{30}Cl_2P_2Pd$	701.9	15.16
Tetrakis(triphenylphosphine)palladium(0)	14221-01-3	$C_{72}H_{60}P_4Pd$	1155.59	9.2
[1,2-Bis(diphenylphosphino)ethane]dichloropalladium(II)	19978-61-1	$PdCl_2[(C_6H_5)_2P(CH_2)_2P(C_6H_5)_2]$	575.75	18.48
1,4-Bis(diphenylphosphino)butane-palladium(II) Dichloride	29964-62-3	$C_{28}H_{25}Cl_2P_2Pd$	603.8	17.62
[1,1'-Bis (diphenylphosphino) ferrocene]dichloropalladium(II), dichloromethane	95464-05-4	$C_{34}H_{28}P_2FePdCl_2CH_2Cl_2$	816.64	13
Dichlorobis(tricyclohexylphosphine)palladium (II)	29934-17-6	$C_{36}H_{66}Cl_2P_2Pd$	738.19	14.42
Dichloro[bis(diphenylphosphinophenyl)ether]palladium(II)	205319-06-8	$C_{36}H_{28}Cl_2OP_2Pd$	715.89	14.87
(1,1'-Bis (disopropylphosphino) ferrocene) dichloropalladium	215788-65-1	$C_{22}H_{36}Cl_2FeP_2Pd$	595.64	17.87
[1,3-Bis (diphenylphosphino) propane]palladium(II) dichloride	59831-02-6	$C_{27}H_{26}Cl_2P_2Pd$	589.77	18.04
[1,1'-Bis(di-cyclohexylphosphino)ferrocene]dichloropalladium(II)	917511-90-1	$C_{34}H_{52}Cl_2P_2Pd$	755.9	14.08
Bis(di-tert-butyl(4-dimethylaminophenyl)phosphine)dichloropalladium(II)	887919-35-9	$C_{32}H_{56}N_2Cl_2P_2Pd$	708.08	15.03
Dichloro [9,9-dimethyl]-4,5-bis (diphenylphosphino)xanthene]palladium (II)	205319-10-4	$C_{39}H_{32}OP_2Cl_2Pd$	755.95	14.08
[1,1'-Bis (diphenylphosphino)ferrocene]dichloropalladium(II)	72287-26-4	$C_{34}H_{28}P_2FePdCl_2$	731.74	14.54
Bis(benzonitrile)dichloropalladium(II)	14220-64-5	$C_{14}H_{10}Cl_2N_2Pd$	383.57	27.74
Bis (acetonitrile)dichloropalladium(II)	14592-56-4	$C_4H_6Cl_2N_2Pd$	259.43	41.02
Tetrakis (acetonitrile)palladium (II) tetrafluoroborate	21797-13-7	$C_8H_{12}N_4B_2F_8Pd$	444.24	23.96
Palladium (II) acetylacetonate	14024-61-4	$C_{10}H_{14}O_4Pd$	304.64	34.93
Dichloro (1,5-cyclooctadiene) palladium(II)	12107-56-1	$C_8H_{12}Cl_2Pd$	285.5	37.27
Bis(dibenzylideneacetone)palladium(0)	32005-36-0	$C_{34}H_{28}O_2Pd$	575.02	18.51
Tris (dibenzylideneacetone)dipalladium(0)	51364-51-3	$C_{51}H_{42}O_3Pd_2$	915.73	23.24
Tris(dibenzylideneacetone)dipalladium(0).Chloroform	52522-40-4	$C_{51}H_{42}O_3Pd_2CHCl_3$	1035.11	20.56
Allylpalladium (II) chloride dimer	12012-95-2	$C_6H_{10}Pd_2Cl_2$	365.89	58.17
Bis (triphenylphosphine)palladium(II) Diacetate	14588-08-0	$C_{40}H_{36}O_4P_2Pd$	749.08	14.21
Dichloro[1,1-bis(diphenylphosphino)ferrocene]palladium(II) acetone	138549-82-3	$C_{34}H_{25}Cl_2FeP_2Pd \cdot 1/2 C_3H_6O$	783.74	13.58
Palladium (II) trifluoroacetate	42196-31-6	$C_4F_6O_4Pd$	332.45	32.01
Palladium(n-cinnamyl) chloride dimer	12131-44-1	$C_{18}H_{18}Cl_2Pd_2$	518.08	41.08

Platinum



Name	CAS No.	Formula	Mol. Weight	% Metal
cis-Bis (acetonitrile)dichloroplatinum (II)	13869-38-0	$[PtCl_2(CH_3CN)_2]$	348.09	56
Platinum (I) acetylacetonate	15170-57-7	$[Pt(C_6H_7O_2)_2]$	393.29	49.6
cis-Dichlorobis(triphenylphosphine)platinum(II)	15604-36-1	$[(C_6H_5)_3P]_2PtCl_2$	790.56	24.67
cis-Dichlorobis (diethyl sulfide)platinum(I)	15442-57-6	$[(C_2H_5)_2S]_2PtCl_2$	446.36	43.7
trans-Dichlorobis(diethyl sulfide)platinum(II)	15337-84-5	$PtCl_2[(C_2H_5)_2S]_2$	446.36	43.7
Tetrakis (triphenylphosphine)platinum (0)	14221-02-4	$Pt[P(C_6H_5)_3]_4$	1244.22	15.67



Rhodium

Name	CAS No.	Formula	Mol. Weight	% Metal
Rhodium(III) acetylacetonate	14284-92-5	C ₁₅ H ₂₁ O ₆ Rh	400.2	25.71
Bicyclo[2.2.1]hepta-2,5-diene-rhodium (I) chloride dimer	12257-42-0	C ₁₄ H ₁₆ Cl ₂ Rh ₂	461	44.64
(1,5-Cyclooctadiene)rhodium chloride dimer	12092-47-6	C ₁₆ H ₂₄ Cl ₂ Rh ₂	493.08	41.74
(Acetylacetonato) (1,5-cyclooctadiene)rhodium (I)	12245-39-5	C ₁₃ H ₁₉ O ₂ Rh	310.2	33.17
Bis (1,5-cyclooctadiene)rhodium (I) tetrafluoroborate	35138-22-8	C ₁₆ H ₂₄ BF ₄ Rh	406.1	25.34
Bis(norbornadiene)rhodium () tetrafluoroborate	36620-11-8	C ₁₄ H ₁₆ BF ₄ Rh	373.99	27.52
Hydridotetrakis(triphenylphosphine)rhodium(D)	18284-36-1	RhH[P(C ₆ H ₅) ₃] ₄	1153.06	8.9
Chloro- tris (triphenyl phosphine) rhodium (I)	14694-95-2	[RhCl{P(C ₆ H ₅) ₃ }] ₃	925.22	11.1
Bromo- tris(triphenyl phosphine) rhodium (I)	14973-89-8	[RhBr{P(C ₆ H ₅) ₃ }] ₃	969	10.6



Ruthenium

Name	CAS No.	Formula	Mol. Weight	% Metal
Dichloro[1,1-bis(diphenylphosphino)ferrocene] (2-aminomethylpyridine)ruthenium(I)	1287255-62-2	C ₄₀ H ₃₆ CL ₂ FeN ₂ P ₂ Ru	834.49	12.11
Dichloro(1,5-cyclooctadiene)ruthenium(II)	50982-12-2	C ₈ H ₁₂ Cl ₂ Ru	280.15	36.08
Dichlorotris(triphenylphosphino)ruthenium (I)	15529-49-4	C ₅₄ H ₄₅ Cl ₂ P ₃ Ru	958.85	10.54
Dichloro (p-cymene)ruthenium(II) Dimer	52462-29-0	C ₂₀ H ₃₀ Cl ₄ Ru ₂	612.39	33.01
[1,3-Bis(diphenylphosphino)propane]ruthenium(II) dichloride				
(1,1'-Bis (disopropylphosphino) ferrocene)dichlororuthenium				



Iridium

Name	CAS No.	Formula	Mol. Weight	% Metal
Chlorobis (cyclooctene)iridium (I) dimer	12246-51-4	C ₃₂ H ₅₆ Ir ₂ Cl ₂	896.13	42.9
Bis (1,5-cyclooctadiene)dimethoxydiridium	12148-71-9	C ₁₈ H ₃₀ Ir ₂ O ₂	662.87	58
Chloro (1,5-cyclooctadiene)iridium (I) dimer	12112-67-3	C ₁₆ H ₂₄ Ir ₂ Cl ₂	671.71	57.23
Chloro (1,5-cyclooctadiene) (1,10-phenanthroline)iridium (I)	41396-69-4	C ₂₀ H ₂₀ N ₂ ClIr.C ₄ H ₈ O	588.17	32.68
Dichloro(pentamethylcyclopentadienyl)iridium (III)dimer	12354-84-6	C ₂₀ H ₃₀ Ir ₂ Cl ₄	796.69	48.25
(Acetylacetonato)(1,5-cyclooctadiene)iridium(I)	12154-84-6	C ₁₃ H ₁₉ IrO ₂	399.51	48.11
Bis(1,5-cyclooctadiene iridium (I) tetrafluoroborate	35138-23-9	C ₁₆ H ₂₄ BF ₄ Ir	495.39	38.8



Nickel

Name	CAS No.	Formula	Mol. Weight	% Metal
[1,3-Bis (diphenylphosphino)propane]dichloronickel(II)	15629-92-2	C ₂₇ H ₂₆ Cl ₂ NiP ₂	542.05	10.83
[1,1'-bis (diphenylphosphino)ferrocene]dichloronickel (II)	67292-34-6	C ₃₄ H ₃₈ Cl ₂ FeNiP ₂	694.1	8.46
Bis(triphenylphosphine)nickel(II) dichloride	14264-16-5	[(C ₆ H ₅) ₃ P] ₂ NiCl ₂	654.17	8.97
Nickel(II) acetylacetonate	3264-82-2	Ni(C ₅ H ₇ O ₂) ₂	256.91	22.85
Bis (1,5-cyclooctadiene)nickel(0)	1295-35-8	C ₁₆ H ₂₄ Ni	275.06	21.34
Bis(tricyclohexylphosphine)nickel(II) dichloride	19999-87-2	C ₃₆ H ₆₆ Cl ₂ NiP ₂	690.46	8.5

Precious Metal Salts (METCAT Brand)



Palladium

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



Platinum

Name	CAS No.	Formula	% Metal	Application
Platinum Metal	7440-06-4	Pt	99.9	
Platinum Black	7440-06-4	Pt	98.5	Catalyst
Platinum (IV) Oxide	1314-15-4	PtO ₂ .nH ₂ O	80	Hydrogenation Catalyst, Suitable for Double and Triple Bond, Aromatic Cabonyls, Nitriles Etc.
Platinum (II) Chloride	10025-65-7	PtCl ₂	72	Hydrosilylation
Chloroplatinic acid, Hydrogen hexachloroplatinate (IV) Solution	16941-12-1	H ₂ [PtCl ₆].nH ₂ O	39-42	Hydrosilylation
Ammonium hexachloroplatinate (IV)	16919-58-7	(NH ₄) ₂ [PtCl ₆]	44	Salt
Ammonium tetrachloroplatinate (II)	13820-41-2	(NH ₄) ₂ PtCl ₄	44	Plating
Dinitrodiammine Platinum (II) Platinum 'P' Salt	14286-02-3	[Pt(NO ₂) ₂ (NH ₃) ₂]	33	Plating
Hydrogen hexachloroplatinate (IV)	16941-12-1	H ₂ [PtCl ₆]	25	Catalyst, Electroplating
Platinum (IV) chloride	13454-96-1	PtCl ₄	55	Catalyst, Electroplating
Potassium hexachloroplatinate(IV)	16921-30-5	K ₂ PtCl ₆	40	Raw material for cisplatin
Potassium tetrachloroplatinate(II)	10025-99-7	K ₂ PtCl ₄	47	Used to make precious metallic cancer drug



Ruthenium

Name	CAS No.	Formula	% Metal	Application
Ruthenium Metal Powder	7440-18-8	Ru	99.9	
Ruthenium Black	7440-18-8	Ru	98.5	Catalyst
Ruthenium Trichloride Anhydrous	10049-08-8	RuCl ₃	48	Oxidising Agent
Ruthenium (III) Chloride, hydrated	14898-67-0	RuCl ₃ .nH ₂ O(n~2)	39	Catalyst Precursor
Ruthenium (IV) Oxide Hydrated	3274-79-7	RuO ₂ .H ₂ O	55	Catalyst
Ruthenium (IV) Oxide Anhydrous	12036-10-1	RuO ₂	73	Dye
Ruthenium Red	11103-72-3	Cl ₆ H ₄₂ N ₁₄ O ₂ Ru ₃	34	Catalyst
Ruthenium (III) nitrosyl nitrate solution	34513-98-9	[Ru(NO)(NO ₃) ₃]	-	Catalyst
Ruthenium (III) Acetate	55466-76-7	RuC ₁₂ H ₂₈ BF ₄ O ₁₈	35.66	Catalyst



Iridium

Name	CAS No.	Formula	% Metal	Application
Iridium Black	7439-88-5	Ir		Catalyst
Iridium Chloride Hydrate	14996-61-3	IrCl ₃ .nH ₂ O	64.4	Catalyst and plating
Iridium (IV) Oxide	12030-49-8	IrO ₂	85.7	Catalyst
Potassium Hexachloroiridate (IV)	16920-56-2	K ₂ IrCl ₆	39.8	Plating



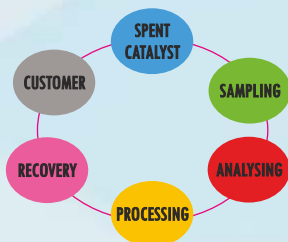
Rhodium

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

Silver

Name	CAS No.	Formula	% Metal	Application
Sliver Metal Powder	7440-22-4	Ag	99.99	Catalyst
Silver (I) Chloride	7783-90-6	AgCl	75.26	Photographic films
Silver (Nitrate	7761-88-8	AgNO ₃	63.5	Silver Plating, Photography, Mirrors
Silver (I) oxide	20667-12-3	Ag ₂ O	93	Catalyst

SERVICES OFFERED :



**Recycling, recovery & Re-process
Of Spent Catalyst Containing
Nickel & Precious Metal.**



**Catalyst screening & Customization
as per clients requirements**



**Process optimization scale
up studies**

Material Safety Data Sheets (MSDS) are provided to customers for storage and handling. The company provides after sales service and also technical consultation to its customers.

EHS : ENVIRONMENT, HEALTH & SAFETY :

- ◆ Environment, Health & Safety (EHS) forms an integral part of METAL CHEM's management policy covering General Safety, Personal Safety, Product Safety, and Machinery Safety & Environment Control.
- ◆ METAL CHEM is committed to work in sync with nature and to protect the health and safety of our employees, customers and the community through our businesses activities by implementing effective policies for environmental protection, prevention of occupational illness and prevention of work injuries.



For any further queries please contact :



metalchem

“Catalytic ideas for a better world”

**Mfrs. Of : Nickel Catalyst
Custom Catalyst & Salts**

Plant :
Plot No.: F-1/15-16, MIDC,
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