



Hindustan Platinum

One-stop  
Solution for all your  
PGM Catalyst needs



Heterogeneous Catalysts



Homogeneous Catalysts



Salts And Solutions



Pharmaceuticals  
API & It's Intermediates



Agrochemicals



Flavours & Fragrance



Fine & Bulk Chemicals



Hindustan Platinum



REFINING SERVICES | CATALYST & CHEMICALS | ELECTRICAL CONTACTS | NITRO TECHNOLOGIES | ENGINEERED PRODUCTS





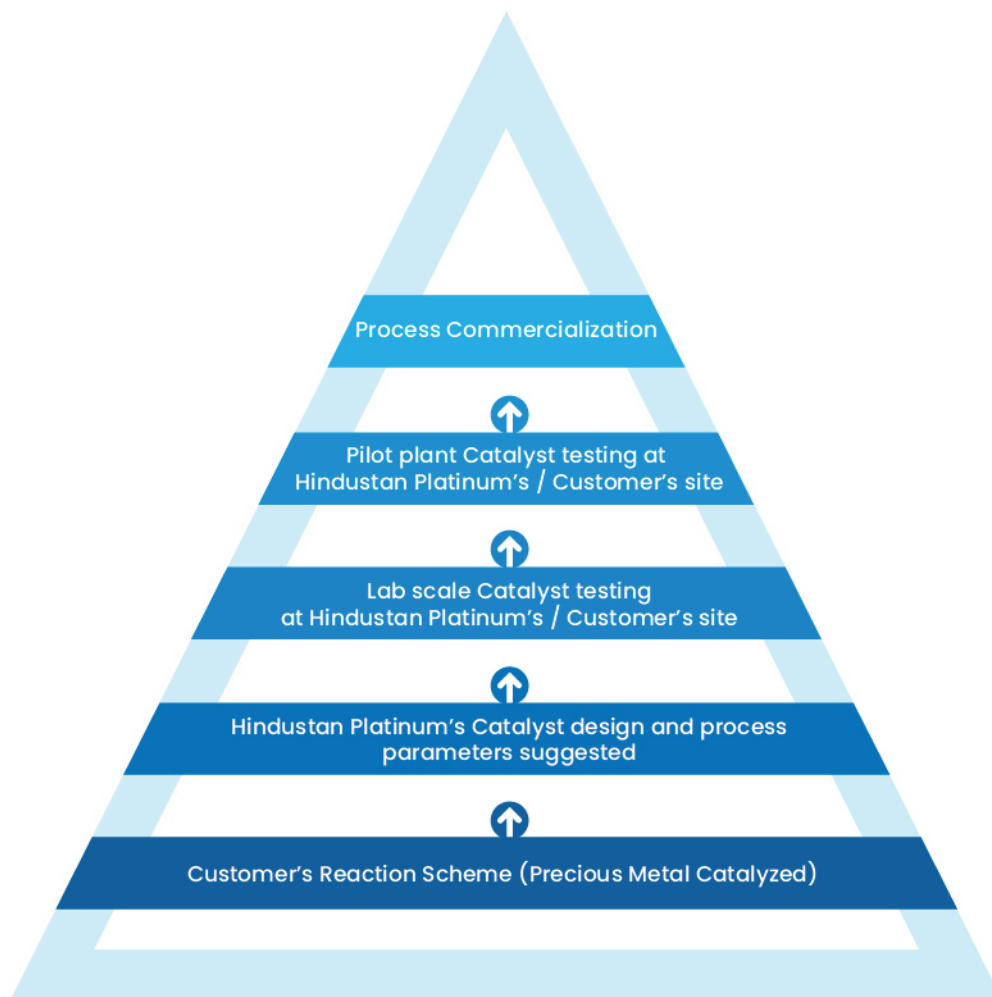
## Hindustan Platinum

Founded in 1961, Hindustan Platinum has emerged as a premier manufacturer and refiner of precious metal products that find versatile industrial applications. Over six decades, Hindustan Platinum has cultivated a substantial customer base spanning across India, the USA, Europe, the UK, and Asia. With a global reach, the company has established itself as a key player in the precious metal products, processes, and services industry, offering a comprehensive spectrum from catalyst manufacturing to PGM refinery.

Hindustan Platinum oversees the retrieval of precious metals, starting from the moment we receive used catalysts until we deliver the recovered metals. We conduct a monthly inventory assessment for our clients, enabling them to stay informed about their stock levels. This approach also grants our clients the flexibility to utilize the provided metal for various applications, subsequently reducing the stock they need to maintain on their premises.

## Catalyst Development Process

Hindustan Platinum collaborates closely with customers while maintaining strict confidentiality to create products that align with market demands. The catalyst development process is outlined below.

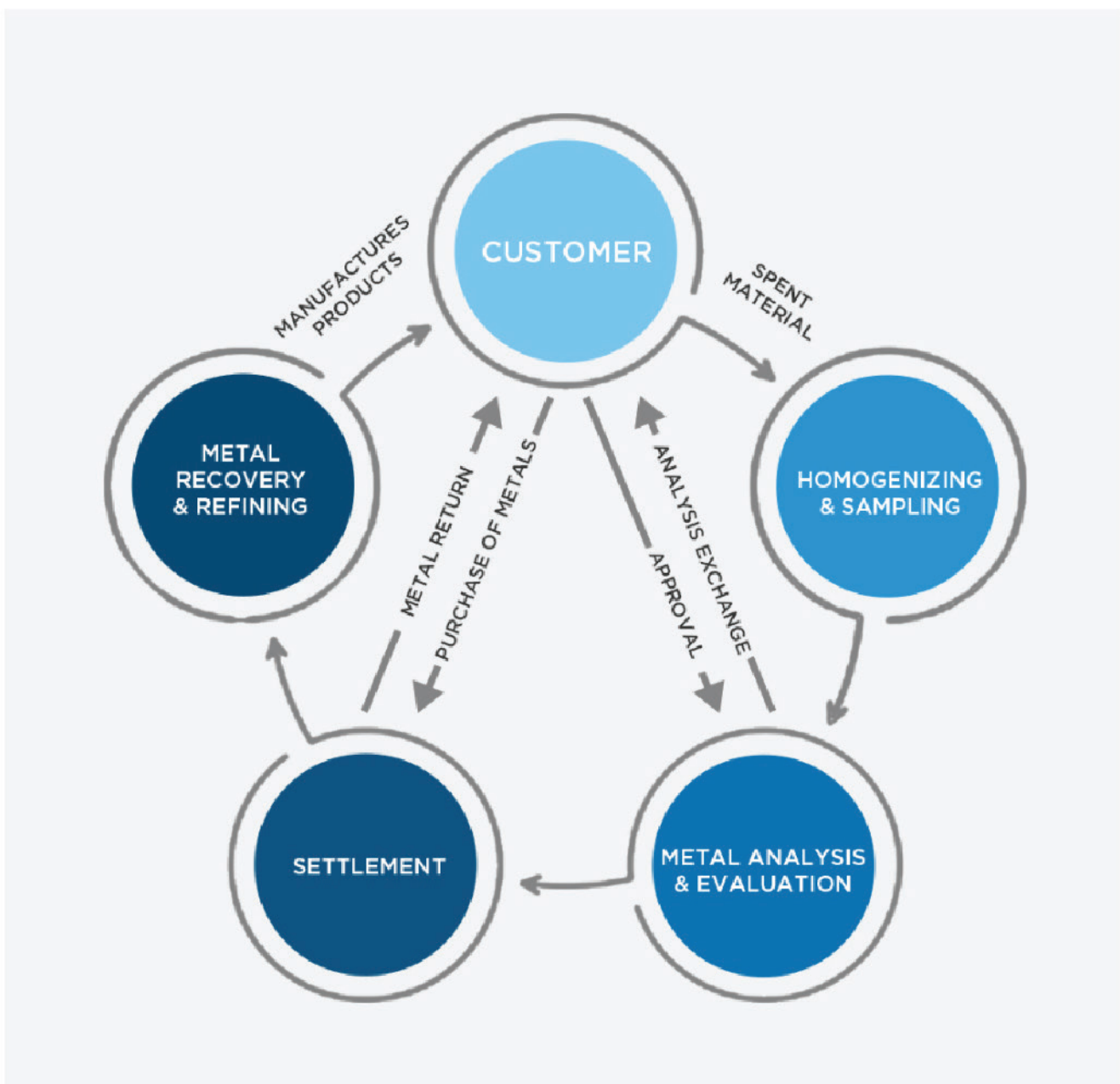




Hindustan Platinum

## Recovery Cycle of Precious Metals

Hindustan Platinum monitors recovery of precious metals, from the time we receive used catalysts to the time we supply back recovered metals. A monthly check-up of the client's inventory allows customers to be up to date with their stock. This also gives clients, the flexibility to use the given metal for multiple products thereby reducing stock held at their end.





**Hindustan Platinum**

# Precious Metal Heterogeneous Catalyst



# Heterogeneous Catalysts

Sr.No.	Reaction	Grade	Description
01	C-C bonds hydrogenation, Double bonds, Triple bonds	RD-92	1%, 2.5%, 5%, 10% Pd/C
		RD-162	2%, 5% Pd/C
		RD-203	2.5%, 5%, 10% Pd/C
		RD-253	5%, 10% Pd/C
		RD-306	5%, 10% Pd/C
		RD-343	2.5%, 5%, 10% Pd/C
		RD-484	5%, 10% Pd/C
		RD-501	5%, 10% Pd/C
		RD-629	5%, 10% Pd/C
		RD-718	5%, 10% Pd/C
		RD-841	5%, 10% Pd/C
		C-1015/A I, (10)	5%, 10% Pd/C
		C-1015/C III, (10, 20)	5%, 10%, 20% Pd/C,
		C-1025/A I, (10)	5%, 10% Pd/C
		RD-1403(1,2,4,R7,8)	5%, 10% Pd/C
		RD-1404 (2)	5%, 10% Pd/C
		RD-1406 (5)	5%, 10% Pd/C
		RD-1406 (2)	2.5%, 10% Pd/C
		RD-1407 (1,4,5,7)	5%, 10% Pd/C
		RD-236	3%, 5% Pt/C
		RD-451	1%, 2%, 5% Pt/C
		RD-709	3% Pt/C
		RD-741(A)	5% Pt/C
		C-3025/LM	5% Pt/C
		RD-1129	1%, 2%, 5% Pt/C
		RD-1317 T,(2) T(3)(9)/A	1%, 5% Pt/C
RD-1670	10% Pt/C		
RD-1871	5% Rh/C		
RD-1365	10% Rh/C		
02	C-N bonds hydrogenation, Nitriles, Imines, Hydrazones, Oximes	RD-92	1%, 2.5%, 5%, 10% Pd/C
		RD-162	2%, 5% Pd/C
		RD-203	2.5%, 5%, 10% Pd/C
		RD-253	5%, 10% Pd/C
		RD-306	5%, 10% Pd/C
		RD-343	2.5%, 5%, 10% Pd/C
		RD-484	5%, 10% Pd/C
		RD-501	5%, 10% Pd/C
		RD-629	5%, 10% Pd/C
		RD-718	5%, 10% Pd/C
		RD-841	5%, 10% Pd/C
		C-1015/A I, (10)	5%, 10% Pd/C
		C-1015/C III, (10, 20)	5%, 10%, 20% Pd/C,
		C-1025/A I, (10)	5%, 10% Pd/C
		RD-1403(1,2,4,R7,8)	5%, 10% Pd/C
		RD-1404 (2)	5%, 10% Pd/C
		RD-1406 (5)	5%, 10% Pd/C
		RD-1406 (2)	2.5%, 10% Pd/C
		RD-1407 (1,4,5,7)	5%, 10% Pd/C



Sr.No.	Reaction	Grade	Description
03	C=O bond hydrogenation Aromatic aldehydes, Aromatic ketones	RD-92	1%, 2.5%, 5%, 10% Pd/C
		RD-162	2%, 5% Pd/C
		RD-203	2.5%, 5%, 10% Pd/C
		RD-253	5%, 10% Pd/C
		RD-306	5%, 10% Pd/C
		RD-343	2.5%, 5%, 10% Pd/C
		RD-484	5%, 10% Pd/C
		RD-501	5%, 10% Pd/C
		RD-629	5%, 10% Pd/C
		RD-718	5%, 10% Pd/C
		RD-841	5%, 10% Pd/C
		C-1015/A I, (10)	5%, 10% Pd/C
		C-1015/C III, (10, 20)	5%, 10%, 20% Pd/C,
		C-1025/A I, (10)	5%, 10% Pd/C
		RD-1403(1,2,4,R7,8)	5%, 10% Pd/C
		RD-1404 (2)	5%, 10% Pd/C
		RD-1406 (5)	5%, 10% Pd/C
		RD-1406 (2)	2.5%, 10% Pd/C
RD-1407 (1,4,5,7)	5%, 10% Pd/C		
04	C=O bond hydrogenation, Aliphatic	RD-236	3%, 5% Pt/C
		RD-451	1%, 2%, 5% Pt/C
		RD-709	3% Pt/C
		RD-741(A)	5% Pt/C
		C-3025/LM	5% Pt/C
		RD-1129	1%, 2%, 5% Pt/C
		RD-1317 T,(2) T(3)(9)/A	1%, 5% Pt/C
		RD-1670	10% Pt/C
		RD-1375	5% Ru/C
		RD-1376	5% Ru/C
05	Reductive alkylation/ Amination	RD-343	2.5%, 5%, 10% Pd/C
		RD-841	5%, 10% Pd/C
		C-1015/C III, (10, 20)	5%, 10%, 20% Pd/C,
		RD-1403(1,2,4,R7,8)	5%, 10% Pd/C
		RD-1404 (2)	5%, 10% Pd/C
		RD-1406 (5)	5%, 10% Pd/C
		RD-1406 (2)	2.5%, 10% Pd/C
		RD-1407 (1,4,5,7)	5%, 10% Pd/C
		RD-236	3%, 5% Pt/C
		RD-451	1%, 2%, 5% Pt/C
		RD-709	3% Pt/C
		RD-741(A)	5% Pt/C
		C-3025/LM	5% Pt/C
		RD-1129	1%, 2%, 5% Pt/C
		RD-1317 T,(2) T(3)(9)/A	1%, 5% Pt/C
RD-1670	10% Pt/C		



Sr.No.	Reaction	Grade	Description
06	Nitro / Nitroso group hydrogenation	RD-92	1%, 2.5%, 5%, 10% Pd/C
		RD-162	2%, 5% Pd/C
		RD-203	2.5%, 5%, 10% Pd/C
		RD-253	5%, 10% Pd/C
		RD-306	5%, 10% Pd/C
		RD-343	2.5%, 5%, 10% Pd/C
		RD-484	5%, 10% Pd/C
		RD-501	5%, 10% Pd/C
		RD-629	5%, 10% Pd/C
		RD-718	5%, 10% Pd/C
		RD-841	5%, 10% Pd/C
		C-1015/A I, (10)	5%, 10% Pd/C
		C-1015/C III, (10, 20)	5%, 10%, 20% Pd/C,
		C-1025/A I, (10)	5%, 10% Pd/C
		RD-1403(1,2,4,R7,8)	5%, 10% Pd/C
		RD-1404 (2)	5%, 10% Pd/C
		RD-1406 (5)	5%, 10% Pd/C
		RD-1406 (2)	2.5%, 10% Pd/C
		RD-1407 (1,4,5,7)	5%, 10% Pd/C
		RD-236	3%, 5% Pt/C
		RD-451	1%, 2%, 5% Pt/C
		RD-709	3% Pt/C
		RD-741(A)	5% Pt/C
C-3025/LM	5% Pt/C		
RD-1129	1%, 2%, 5% Pt/C		
RD-1317 T,(2) T(3)(9)/A	1%, 5% Pt/C		
RD-1670	10% Pt/C		
07	Debenzylation/ Hydrogenolysis O-Debenzylation, N-Debenzylation, Cbz-(Z) Deprotection	RD-92	1%, 2.5%, 5%, 10% Pd/C
		RD-162	2%, 5% Pd/C
		RD-203	2.5%, 5%, 10% Pd/C
		RD-253	5%, 10% Pd/C
		RD-306	5%, 10% Pd/C
		RD-343	2.5%, 5%, 10% Pd/C
		RD-484	5%, 10% Pd/C
		RD-501	5%, 10% Pd/C
		RD-629	5%, 10% Pd/C
		RD-718	5%, 10% Pd/C
		RD-841	5%, 10% Pd/C
		C-1015/A I, (10)	5%, 10% Pd/C
		C-1015/C III, (10, 20)	5%, 10%, 20% Pd/C,
		C-1025/A I, (10)	5%, 10% Pd/C
		RD-1403(1,2,4,R7,8)	5%, 10% Pd/C
		RD-1404 (2)	5%, 10% Pd/C
		RD-1406 (5)	5%, 10% Pd/C
		RD-1406 (2)	2.5%, 10% Pd/C
		RD-1407 (1,4,5,7)	5%, 10% Pd/C





Sr.No.	Reaction	Grade	Description
08	Heteroaromatics	RD-213	5%, 10% Pd/C
		C-1015/A I, (10)	5%, 10% Pd/C
		C-1015/C III, (10, 20)	5%, 10%, 20% Pd/C,
		C-1025/A I, (10)	5%, 10% Pd/C
		RD-1403(1,2,4,R7,8)	5%, 10% Pd/C
		RD-1404 (2)	5%, 10% Pd/C
		RD-1406 (5)	5%, 10% Pd/C
		RD-1406 (2)	2.5%, 10% Pd/C
		RD-1407 (1,4,5,7)	5%, 10% Pd/C
		RD-1375	5% Ru/C
RD-1376	5% Ru/C		
09	Aromatic hydrogenation	RD-343	2.5%, 5%, 10% Pd/C
		C-1015/A I, (10)	5%, 10% Pd/C
		C-1015/C III, (10, 20)	5%, 10%, 20% Pd/C,
		C-1025/A I, (10)	5%, 10% Pd/C
		RD-1403(1,2,4,R7,8)	5%, 10% Pd/C
		RD-1404 (2)	5%, 10% Pd/C
		RD-1406 (5)	5%, 10% Pd/C
		RD-1406 (2)	2.5%, 10% Pd/C
		RD-1871	5% Rh/C
		RD-1365	10% Rh/C
RD-1375	5% Ru/C		
RD-1376	5% Ru/C		
10	Halonitroaromatics Hydrogenation	RD-343	2.5%, 5%, 10% Pd/C
		RD-236	3%, 5% Pt/C
		RD-451	1%, 2%, 5% Pt/C
		RD-709	3% Pt/C
		RD-741(A)	5% Pt/C
		C-3025/LM	5% Pt/C
		RD-1129	1%, 2%, 5% Pt/C
		RD-1317 T,(2) T(3)(9)/A	1%, 5% Pt/C
		RD-1670	10% Pt/C
		RD-1375	5% Ru/C
RD-1376	5% Ru/C		
11	Dehydrogenation	RD-162	2%, 5% Pd/C
		RD-484	5%, 10% Pd/C
		RD-501	5%, 10% Pd/C
		RD-629	5%, 10% Pd/C
		RD-718	5%, 10% Pd/C
		C-1015/A I, (10)	5%, 10% Pd/C
		C-1025/A I, (10)	5%, 10% Pd/C
12	Dehalogenation	RD-484	5%, 10% Pd/C
		RD-501	5%, 10% Pd/C
		RD-629	5%, 10% Pd/C
		RD-718	5%, 10% Pd/C
		RD-841	5%, 10% Pd/C
		C-1015/A I, (10)	5%, 10% Pd/C
		C-1015/C III, (10, 20)	5%, 10%, 20% Pd/C,
C-1025/A I, (10)	5%, 10% Pd/C		



Sr.No.	Reaction	Grade	Description
13	Selective reduction	RD-559	5% Pd/C
		C-1025/C III, (10)	5%, 10% Pd/C
		RD-355	5% Pd/CaCO <sub>3</sub>
		RD-1914	5% Pd/CaCO <sub>3</sub>
		LINDLAR	5% Pd Pb/CaCO <sub>3</sub> ,
		-	5% Pd/BaSO <sub>4</sub>
		RD-1765(W)	5% Pd/Al <sub>2</sub> O <sub>3</sub>
		RD-1667	4% Pd 1% Pt 5% Bi/C
		RD-14	2% Pt /SiO
		RD-2001	5% Pt/Al <sub>2</sub> O <sub>3</sub>
		RD-283 (A)	5% Pt/Graphite
		RD-8	5% Rh//Al <sub>2</sub> O <sub>3</sub>
		RD-2097	5% Ru/Al <sub>2</sub> O <sub>3</sub>
RD-2098	5% Ru/Al <sub>2</sub> O <sub>3</sub>		
14	Nitro reduction	RD-4173	5% Pd/Carbon
		RD-4112	5% Pt/Carbon
		RD-4089	5% Pd/Carbon
		RD-4113	10% Pd/Carbon
		RD-4114	10% Pt/Carbon
		RD-4183	10% Pd/Carbon
		RD-4188	10% Pd/Carbon pellet
		RD-4189	5% Pd/Carbon Pellet
		RD-4243	4.5%Pd, 0.5% Pt & 5% Fe/Carbon
		RD-4244	4.5%Pd, 0.5% Pt & 5% Fe/Carbon
15	Nitrile reduction	RD-4093	5% Pd/Carbon
		RD-4173	5% Pd/Carbon
		RD-4256	10% Pd/Carbon
		RD-4255	5% Pd/Carbon
16	Nitro reduction without Dehalogenation	RD-4114	10% Pt/Carbon
		RD-4138	3% Pt/Carbon
		RD-4112	5% Pt/Carbon
		RD-4142	5% Pd & 1% Ru/Carbon
RD-4144	5% Pd & 1% Ru/Carbon		
17	Nitrazo reduction	RD-4256	10% Pd/Carbon
		RD-4172	5% Pt/Carbon
18	Carbonyl Reduction	RD-4089	5% Pd/Carbon
		RD-4105	5% Pd/Carbon
		RD-4136	5% Pd/Carbon
		RD-4246	7.5% Pd/Carbon
		RD-4249	10% Pd/Carbon
		RD-4150	5% Pd/Carbon Pellet
		RD-4239	5% Re/Carbon
19	Debenzylation & Nitro reduction	RD-4095	10% Pd/Carbon
20	Double bond & Ketone reduction	RD-4218	5% Pt/Carbon
		RD-4225	5% Pt/Carbon
		RD-4242	5% Pt/Carbon
21	Pyridine ring reduction	RD-4102	10% Pt/Carbon
		RD-4218	5% Pt/Carbon
22	Imine or imiono ether reduction	RD-4014	5% Pt/Carbon
		RD-4017	5% Pt/Carbon
		RD-4030	5% Pd/Alumina Powder
		RD-4181	10% Pd/Alumina Powder



Sr.No.	Reaction	Grade	Description
23	Reductive amination	RD-4089	5% Pd/Carbon
		RD-4095	10% Pd/Carbon
		RD-4256	10% Pd/Carbon
		RD-4030	5% Pd/Alumina Powder
		RD-4255	5% Pd/Carbon
		RD-4155	2.5% Ru/Alumina Powder
		RD-4156	5% Ru/Alumina Powder
		RD-4157	10% Ru/Alumina Powder
24	Bamberger Rearrangement	RD-4112	5% Pt/Carbon
		RD-4268	1% Pt/Carbon
		RD-4086	1.5% Pt/Carbon
		RD-4093	5% Pd/Carbon
		RD-4065	0.7% Pt/Carbon
		RD-4032	1% Pt/Carbon
		RD-4268	1% Pt/Carbon
		RD-4085	5% Pt/Carbon
25	Coupling Reaction (Suzuki and Heck)	RD-4101	10% Pt/Carbon
		RD-4113	10% Pd/Carbon
		RD-4095	10% Pd/Carbon
26	Debenzylation	RD-4161	10% Pd/Carbon
		RD-4273	5% Pd/Carbon
		RD-4153	5% Pd/Carbon
		RD-4099	3% Pd/Carbon
		RD-4092	3% Pd/Carbon
		RD-4094	5% Pd/Carbon
		RD-4095	10% Pd/Carbon
		RD-4161	10% Pd/Carbon
		RD-4273	5% Pd/Carbon
		RD-4182	10% Pd/Carbon
		RD-4188	10% Pd/Carbon Pellet
		RD-4194	5% Pd/Carbon Pellet
27	Double debenzoylation	RD-4216	2.5% Pd/Carbon
		RD-4183	10% Pd/Carbon
		RD-4161	10% Pd/Carbon
		RD-4182	10% Pd/Carbon
		RD-4183	10% Pd/Carbon
		RD-4191	10% Pd/Carbon
28	Pearlman Catalyst	RD-4095	10% Pd/Carbon
		RD-4216	2.5% Pd/Carbon
		RD-4188	10% Pd/Carbon Pellet
		RD-4235	5% Pd(OH) <sub>2</sub> /Carbon
29	Alkyne hydrogenation	RD-4236	10% Pd(OH) <sub>2</sub> /Carbon
		RD-4237	20% Pd(OH) <sub>2</sub> /Carbon
		RD-4238	20% Pd(OH) <sub>2</sub> /Carbon
		RD-4250	5% Pd/Calcium Carbonate
		RD-4272	5% Pt/Calcium Carbonate
		RD-4163	5% Pd/Calcium Carbonate
		RD-4174	5% Pt/Carbon
RD-4258	5% Pd/Calcium Carbonate		
RD-4260	5% Pd/Carbon		
RD-4214	5% Pd/Carbon		
RD-4215	3% Pd/Carbon		



Sr.No.	Reaction	Grade	Description
30	Aliphatic double bond reduction (alkene to alkane)	RD-4204	5% Pd/Carbon
		RD-4163	5% Pd/Calcium Carbonate
		RD-4251	5% Pd/Calcium Carbonate
		RD-4205	5% Pd/Carbon
		RD-4207	5% Pd/Carbon
31	Aromatic side chain reduction	RD-4174	5% Pt/Carbon
		RD-4214	5% Pd/Carbon
32	Ring reduction and Isomerisation	RD-4201	2.5% Ru & 1% Re/Alumina Extrudate
		RD-4217	5% Ru/Alumina Extrudate
		RD-4231	2% Ru & 0.5% Rh/Alumina Extrudate
		RD-4154	1% Ru/Alumina Powder
		RD-4240	4% Ru & 1% Rh/Alumina Extrudate
33	Dehalogenation	RD-4193	5% Pd/Carbon
		RD-4195	5% Pd/Carbon
		RD-4257	5% Pd/Carbon
		RD-4256	10% Pd/Carbon
34	Long Chain De-protection	RD-4255	5% Pd/Carbon
		RD-4153	5% Pd/Carbon
35	Partial dehalogenation	RD-4232	0.5% Pd/Carbon Pellet
		RD-4233	0.5% Pd/Carbon Pellet
36	Ring hydrogenation	RD-4181	10% Pd/Alumina Powder
		RD-4156	5% Ru/Alumina Powder
		RD-4095	10% Pd/Carbon
		RD-4184	5% Pd/Carbon
		RD-4091	5% Ru/Carbon
		RD-4115	5% Ru/Carbon
		RD-4116	10% Ru/Carbon
		RD-4213	10% Pd/Carbon
		RD-4063	5% Rh/Alumina Powder
		RD-4117	5% Rh/Carbon
		RD-4220	1% Rh/Carbon
		RD-4221	1% Ru/Carbon
		RD-4257	5% Pd/Carbon
		RD-4256	10% Pd/Carbon
		RD-4267	10% Rh/Carbon
37	Double ring hydrogenation	RD-4177	2.5% Ru/Alumina Extrudate
		RD-4178	2.5% Ru/Alumina Extrudate
		RD-4179	2.5% Ru/Alumina Extrudate
		RD-4180	2.5% Ru/Alumina Extrudate
		RD-4201	2.5% Ru & 1% Re/Alumina Extrudate
		RD-4240	4% Ru & 1% Rh/Alumina Extrudate
		RD-4217	5% Ru/Alumina Extrudate
		RD-4231	2% Ru & 0.5% Rh/Alumina Extrudate
		RD-4256	10% Pd/Carbon
38	Single ring hydrogenation	RD-4194	5% Pd/Carbon Pellet
		RD-4095	10% Pd/Carbon
		RD-4181	10% Pd/Alumina Powder
		RD-4117	5% Rh/Carbon
		RD-4156	5% Ru/Alumina Powder



Sr.No.	Reaction	Grade	Description
39	Deuterium Chemistry (Need to use in Dry form)	RD-4014	5% Pt/Carbon
		RD-4017	5% Pt/Carbon
		RD-4114	10% Pt/Carbon
40	Dehydrogenation	RD-4194	5% Pd/Carbon Pellet
		RD-4269	0.5% Pt/Alumina Extrudate
		RD-4270	0.5% Pt/Alumina Extrudate
		RD-4271	0.5% Pt/Alumina Extrudate
		RD-4277	0.5% Pt/Alumina Extrudate
		RD-4279	0.5% Pt/Alumina Extrudate
		RD-4209	5% Pd/Carbon Pellet
41	Styrene oxide Saturation	RD-4184	5% Pd/Carbon
		RD-4211	5% Pd/Carbon
		RD-4224	5% Pd/ Alumina Extrudate
42	Zeolite supported catalysts	RD-4025	5% Pd/Zeolite
		RD-4028	5% Pd/Zeolite
43	Aliphatic double bond and Carbonyl Reduction	RD-4147	3% Pd & 6% Re/Carbon
		RD-4148	3% Pd & 6% Re/Carbon
44	Curcumin to Tetrahydro curcumin	RD-4222	10% Pd/Carbon
45	Rosenmund Reduction	RD-4265	5% Pd/Barium Sulphate
		RD-4274	5% Pd/Barium Carbonate
		RD-4280	5% Pd/Barium Sulphate



## Hindustan Platinum

Hindustan Platinum Private Limited

**R & D Lab:** C 122, TTC Industrial Area, Pawane, Navi Mumbai 400703, India.

**Corp. Office:** VIOS Tower, 22nd Floor, New Cuffe Parade, Mumbai 400 037, India.

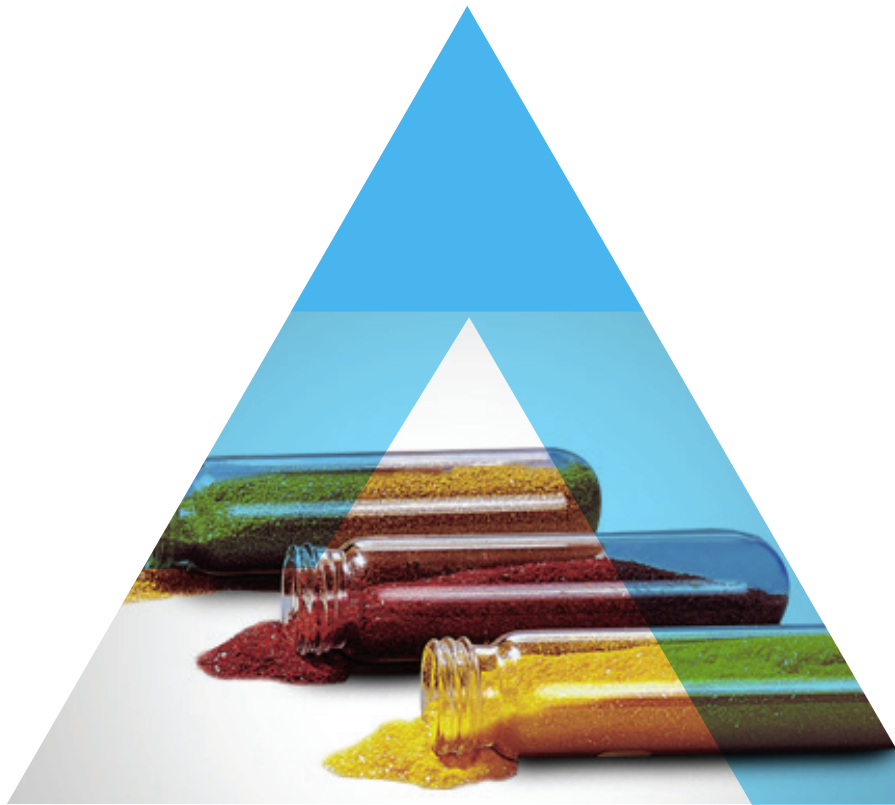
Tel: +91 22 6922 5000 | E-mail: cc.sales@hp.co.in

[www.hindustanplatinum.com](http://www.hindustanplatinum.com)



**Hindustan Platinum**

# Precious Metal Homogeneous Catalyst





## Platinum Homogeneous Catalyst

Sr. No	Product Name	CAS	Mol.Form	Mol. Wt.	% Metal Content	Properties
1	Tetrakis (triphenyl phosphine) platinum (0)	14221-02-4	C <sub>72</sub> H <sub>60</sub> P <sub>4</sub> Pt	1244.21	15.68%	Air, light, heat & moisture sensitive
2	Tris (dibenzylideneacetone) platinum (0)	11072-92-7	C <sub>51</sub> H <sub>42</sub> O <sub>3</sub> Pt	897.96	21.70%	Air sensitive
3	Platinum (II) Acetyl Acetonate	15170-51-7	C <sub>10</sub> H <sub>14</sub> O <sub>4</sub> Pt	393.3	49.60%	
4	Hydrogen hexahydroxyplatinate (IV)	51850-20-5	H <sub>3</sub> O <sub>6</sub> Pt	299.14	65.21%	Heat sensitive
5	Dichloro(1,5-cyclooctadiene) platinum (II)	12080-32-9	C <sub>8</sub> H <sub>12</sub> Cl <sub>2</sub> Pt	374.16	52.13%	

## Palladium Homogeneous Catalyst

Sr. No	Product Name	CAS	Mol.Form	Mol. Wt.	% Metal Content	Properties
1	Dichloro Bis (Acetonitrile) palladium (II)	14592-56-4	C <sub>4</sub> H <sub>6</sub> Cl <sub>2</sub> N <sub>2</sub> Pd	259.43	41.01%	Heat sensitive
2	1,1'-Bis (Diphenylphosphino) Ferrocene-palladium(II)	72287-26-4	C <sub>34</sub> H <sub>28</sub> Cl <sub>2</sub> FeP <sub>2</sub> Pd	731.7	14.54%	Heat sensitive
3	1,1'-Bis (Diphenylphosphino) Ferrocene-palladium(II) Dichloromethane complex	95464-05-4	C <sub>35</sub> H <sub>30</sub> Cl <sub>4</sub> FeP <sub>2</sub> Pd	816.64	13.02%	Heat sensitive
4	Bis (Dibenzylideneacetone) palladium (0)	32005-36-0	C <sub>34</sub> H <sub>28</sub> O <sub>2</sub> Pd	575.02	18.50%	Air, heat & moisture sensitive
5	Tris (Dibenzylideneacetone) -Dipalladium-chloroform adduct	52522-40-4	C <sub>52</sub> H <sub>43</sub> Cl <sub>3</sub> O <sub>3</sub> Pd <sub>2</sub>	1035.1	20.55%	
6	Tris(DiBenzylideneacetone) Dipalladium (0)	51364-51-3 52409-22-0	C <sub>51</sub> H <sub>42</sub> O <sub>3</sub> Pd <sub>2</sub>	915.72	23.23%	Air and moisture sensitive
7	Dichloro Bis(Triphenyl phosphine) Palladium(II) dichloride	13965-03-2	C <sub>36</sub> H <sub>30</sub> Cl <sub>2</sub> P <sub>2</sub> Pd	701.9	15.15%	
8	Tetrakis(triphenyl phosphine) Palladium(0)	14221-01-3	C <sub>72</sub> H <sub>60</sub> P <sub>4</sub> Pd	1155.56	9.20%	Air, light and heat sensitive
9	Bis(Benzonitrile) palladium(II) Chloride	14220-64-5	C <sub>14</sub> H <sub>10</sub> Cl <sub>2</sub> N <sub>2</sub> Pd	383.57	27.73%	Heat sensitive
10	Palladium (II) acetyl acetonate	14024-61-4	C <sub>10</sub> H <sub>14</sub> O <sub>4</sub> Pd	304.64	34.92%	Heat sensitive
11	Palladium Acetate	3375-31-3	C <sub>4</sub> H <sub>6</sub> O <sub>4</sub> Pd	224.51	47.40%	Heat sensitive
12	Dichloro Bis (Ditertbutyl phenyl phosphine) palladium (II)	34409-44-4	C <sub>28</sub> H <sub>46</sub> Cl <sub>2</sub> P <sub>2</sub> Pd	621.94	17.10%	Air, light and heat sensitive
13	Dichloro [9,9-dimethyl-4,5-bis (diphenylphosphino) xanthene] palladium	205319-10-4	C <sub>39</sub> H <sub>32</sub> Cl <sub>2</sub> OP <sub>2</sub> Pd	755.94	14.07%	Air, light and heat sensitive
14	Dichloro [1,1-Bis (Ditertbutyl phosphino) ferrocene] palladium (II)	95408-45-0	C <sub>26</sub> H <sub>44</sub> Cl <sub>2</sub> P <sub>2</sub> FePd	651.75	16.32%	Air, light and heat sensitive
15	Allyl Palladium (II) Chloride Dimer	12012-95-2	C <sub>6</sub> H <sub>10</sub> Cl <sub>2</sub> Pd <sub>2</sub>	365.85	58.15%	Heat sensitive
16	Bis Tri tertbutyl Phosphine Pd (0)	53199-31-8	C <sub>24</sub> H <sub>54</sub> P <sub>2</sub> Pd	511.05	20.81%	Air, light and heat sensitive
17	Dichloro (1,5-Cyclooctadine) Palladium (II)	12107-56-1	C <sub>8</sub> H <sub>12</sub> Cl <sub>2</sub> Pd	285.51	37.26%	Hygroscopic
18	Dibromo (1,5-Cyclooctadine) Palladium (II)	12145-47-0	C <sub>8</sub> H <sub>12</sub> Br <sub>2</sub> Pd	374.41	28.40%	Air, light and heat sensitive
19	[1,2-Bis (diphenylphosphino) ethane] dichloropalladium (II)	19978-61-1	C <sub>26</sub> H <sub>24</sub> Cl <sub>2</sub> P <sub>2</sub> Pd	575.74	18.40%	Hygroscopic
20	trans -Benzyl(chloro) bis (triphenylphosphine) palladium(II)	22784-59-4	C <sub>43</sub> H <sub>37</sub> ClP <sub>2</sub> Pd	757.58	14.04%	Heat Sensitive



## Palladium Homogeneous Catalyst

Sr. No	Product Name	CAS	Mol.Form	Mol. Wt.	% Metal Content	Properties
21	Bis [1,2- bis (diphenylphosphino) ethane] palladium(0)	31277-98-2	$C_{52}H_{48}P_4Pd$	903.25	11.77%	Air, light and heat sensitive
22	(1,3 -Bis (diphenylphosphino) propane) palladium(II) chloride	59831-02-6	$C_{27}H_{26}Cl_2P_2Pd$	589.77	18.04%	Air sensitive
23	1,4 -Bis(diphenylphosphino) butane-palladium(II) chloride	29964-62-3	$C_{28}H_{28}Cl_2P_2Pd$	603.8	17.60%	Air, and moisture sensitive
24	2,5-Norbornadiene Palladium(II) Dichloride	12317-46-3	$C_7H_8Cl_2Pd$	269.4	39.40%	Air sensitive
25	Palladium(II) trifluoroacetate	42196-31-6	$(CF_3COO)_2Pd$	332.45	32.01%	Heat and moisture sensitive
26	[(R) - (+) - 2,2' - Bis(diphenylphosphino) - 1,1' - binaphthyl]palladium(II) chloride	115826-95-4	$C_{44}H_{32}Cl_2P_2Pd$	800	13.30%	Air sensitive
27	Dichlorobis(tricyclohexylphosphine) palladium(II)	29934-17-6	$C_{36}H_{66}Cl_2P_2Pd$	738.18	14.40%	Air and moisture sensitive
28	Dichlorobis(tri - o - tolylphosphine) palladium(II)	40691-33-6	$C_{42}H_{42}Cl_2P_2Pd$	786.06	13.53%	Air, heat and moisture sensitive
29	Dichloro[1,1' - bis(diphenylphosphino) ferrocene] palladium(II), complex with acetone	851232-71-8	$C_{34}H_{28}Cl_2FeP_2Pd \cdot (CH_3)_2CO$	787.81	13.50%	Heat sensitive
30	Pd(Ampos) <sub>2</sub> Cl <sub>2</sub>	887919-35-9	$C_{32}H_{36}Cl_2NP_2Pd$	708.07	15.02%	Heat sensitive
31	Palladium(π - cinnamyl) chloride dimer	12131-44-1	$C_{18}H_{18}Cl_2Pd_2$	518.08	41.00%	Air & heat sensitive
32	Dichloro[Bis(2 - (Diphenyl phosphino) ether) Palladium (II)]	205319-06-8	$C_{36}H_{28}Cl_2OPd_2$	715.88	14.86%	Air and moisture sensitive
33	Chloro (Tri Tert Butylphosphin)(2 - Amino - 1, 1 - biphenyl - 2 - l)Palladium(II)	1375325-71-5	$C_{24}H_{37}ClNPd$	512.4	20.76%	Air sensitive
34	Bis(triphenylphosphine)palladium(II) acetate	14588-08-0	$C_{40}H_{36}OP_2Pd$	749.09	14.20%	Heat sensitive
35	Dichloro[(R)-(-)-2,2'-bis(diphenylphosphino)-1,1'-binaphthyl] palladium(II)	115826-95-4	$C_{44}H_{32}Cl_2P_2Pd$	800	13.30%	Air & heat sensitive
36	Dichloro[(S)-(-)-2,2'-bis(diphenylphosphino)-1,1'-binaphthyl] palladium(II)	127593-28-6	$C_{44}H_{32}Cl_2P_2Pd$	800	13.30%	Air & heat sensitive

## Rhodium Homogeneous Catalyst

Sr. No	Product Name	CAS	Mol.Form	Mol. Wt.	% Metal Content	Properties
1	Rhodium (II) Octanate	73482-96-9	$C_{32}H_{60}ORh_2$	778.63	26.43%	
2	Rhodium (II) Acetate	15956-28-2	$C_8H_{12}ORh_2$	441.99	46.56%	
3	Chlorotris(triphenylphosphine) rhodium (I) (Wilkinson Catalyst)	14694-95-2	$C_{54}H_{45}ClP_3Rh$	925.23	11.12%	Air & heat sensitive
4	1,5 - Cyclooctadiene Rhodium(I) Chloride dimer (98%)	12092-47-6	$C_{16}H_{24}Cl_2Rh_2$	493.08	40.99%	
5	Rhodium Norbornadiene Dichloride	12257-42-0	$C_{14}H_{16}Cl_2Rh_2$	460.99	44.64%	Air and moisture sensitive
6	Rhodium Norbornadiene Trifluoroborate	36620-11-8	$C_{14}H_{16}RhBF_4$	373.99	27.51%	Air and moisture sensitive
7	Hydridotetrakis(triphenylphosphine) Rhodium	18284-36-1	$C_{72}H_{61}P_4Rh$	1153.12	8.90%	
8	Bis(1,5 - cyclooctadiene)rhodium(I) tetrafluoroborate	35138-22-8	$C_{16}H_{24}BF_4Rh$	406.07	25.33%	Air and moisture sensitive
9	Dichloro(pentamethylcyclopentadienyl) rhodium(III) dimer	12354-85-7	$C_{20}H_{30}Cl_4Rh_2$	618.08	33.30%	
10	Carbonylchlorobis(triphenylphosphine) rhodium(I)	13938-94-8	$C_{37}H_{30}ClOPRh$	690.94	14.90%	Heat sensitive





## Rhodium Homogeneous Catalyst

Sr. No	Product Name	CAS	Mol.Form	Mol. Wt.	% Metal Content	Properties
11	Bis (cyclooctadiene) dihydroxo dirhodium	73468-85-6	$C_{16}H_{26}O_2Rh_2$	456.19	45.11%	Air and moisture sensitive
12	Tris triphenylphosphine rhodium carbonyl hydride(RODRIDO)	17185-29-4	$C_{55}H_{46}OPRh$	918.8	11.20%	Air and moisture sensitive
13	Acetylacetonato dicarbonyl rhodium (I) (CARAC)	14874-82-9	$C_7H_7O_4Rh$	258.04	39.90%	Air sensitive
14	Carbonyl - 2,4 - pentandionato triphenylphosphine Rhodium(I) (ROPAC)	25470-96-6	$C_{24}H_{22}O_3PRh$	493.32	20.85%	Heat sensitive
15	Pentamethylatedcyclopentdiene Rhodium chloride (SS)TsDPEN	219944-99-7	$C_{31}H_{36}N_2ClO_2SRh$	639.06	16.10%	Heat sensitive
16	Pentamethylatedcyclopentdiene Rhodium chloride (RR)TsDPEN	223392-99-2	$C_{31}H_{36}N_2ClO_2SRh$	639.06	16.10%	Heat sensitive
17	Rhodium(III) acetylacetonate	14284-92-5	$C_{15}H_{21}O_6Rh$	400.23	25.71%	

## Ruthenium Homogeneous Catalyst

Sr. No	Product Name	CAS	Mol.Form	Mol. Wt.	% Metal Content	Properties
1	Ruthenium- p- Cymene Dimer	52462-29-0	$C_{20}H_{28}Cl_4Ru_2$	612.39	33.00%	
2	Rhuthenium Acetyl acetate	14284-93-6	$C_{15}H_{21}ORu$	398.39	25.36%	Heat sensitive
3	Ruthenium- p- Cymene- s- Binap	130004-33-0	$C_{54}H_{46}Cl_2P_2RuP$	928.87	10.88%	Air and moisture sensitive
4	RuCl(p- cymene)[(S,S) - Ts- DPEN]	192139-90-5	$C_{31}H_{35}ClN_2O_2RuS$	636.21	15.88%	Air and moisture sensitive
5	RuCl(p- cymene)[(R,R) - Ts- DPEN]	192139-92-7	$C_{31}H_{35}ClN_2O_2RuS$	636.21	15.88%	Air and moisture sensitive
6	Ruthenium(II) - tris(triphenylphosphine) dichloride	15529-49-4	$C_{54}H_{45}Cl_2P_3Ru$	958.83	10.50%	Air and moisture sensitive
7	Dichloro(1,5 - cyclooctadiene) ruthenium(II), Polymer	50982-12-2	$C_8H_{12}Cl_2Ru$	280.16	36.06%	Hygroscopic
8	Diacetato[(S) - (-) - 2,2 bis(diphenylphosphino)-1,1'- binaphthyl] ruthenium(II)	261948-85-0	$C_{48}H_{38}O_4P_2Ru$	841.83	12.00%	Air, light, heat and moisture sensitive

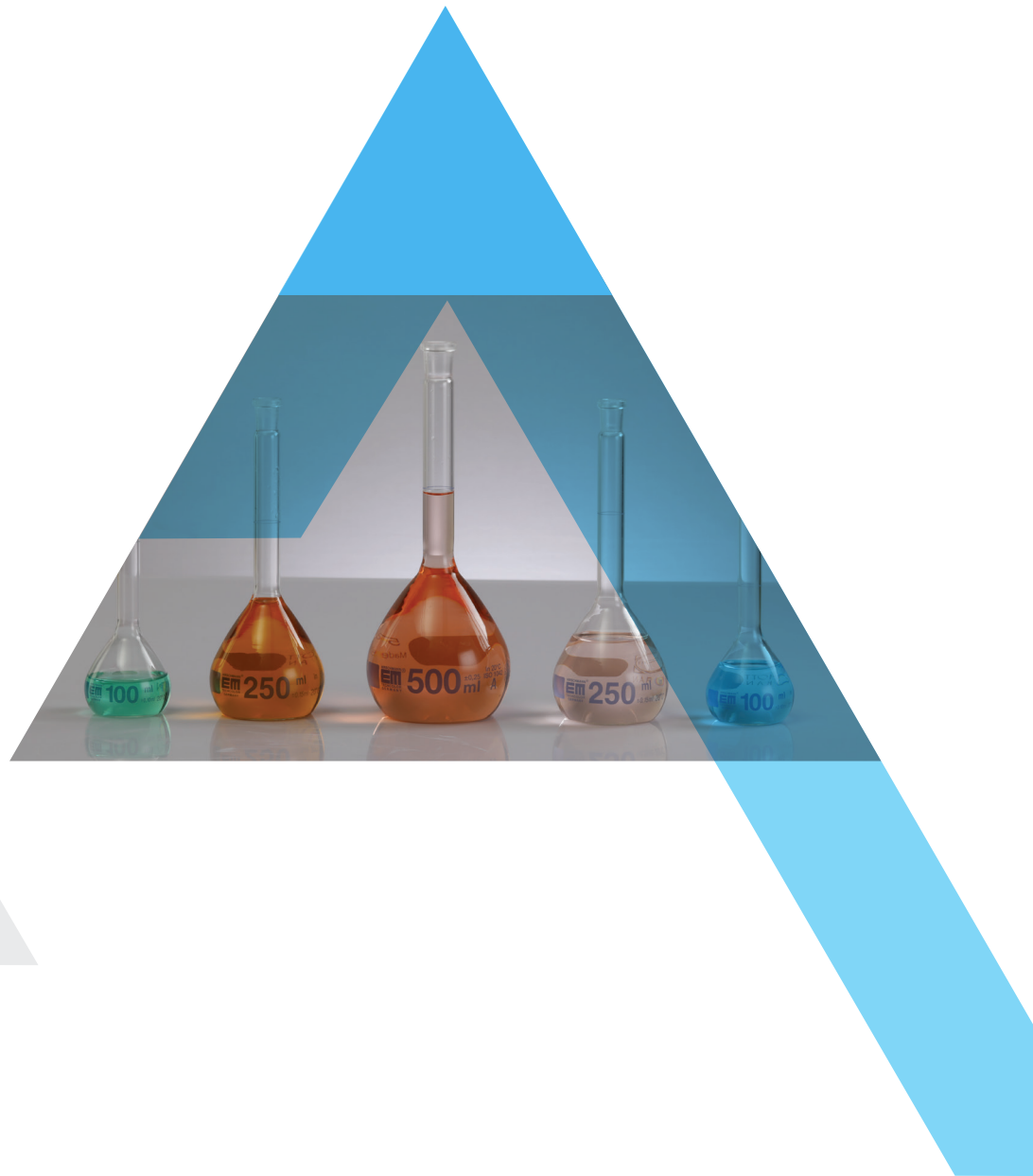
## Iridium Homogeneous Catalyst

Sr. No	Product Name	CAS	Mol.Form	Mol. Wt.	% Metal Content	Properties
1	Iridium Methoxy cyclooctadiene dimer	12148-71-9	$C_{18}H_{30}Ir_2O_2$	662.87	58.01%	Heat sensitive
2	Iridium cyclooctadiene dichloride dimer	12112-67-3	$C_{12}H_{16}Cl_2Ir_2$	671.7	57.10%	Heat sensitive



Hindustan Platinum

# Precious Metal Salts and Solutions



# PRECIOUS METAL SALTS AND SOLUTIONS

## Platinum



Sr. No	Product Name	CAS	Mol.Form	Mol. Wt.	% Metal Content	Properties
1.	Ammonium hexachloroplatinate(IV)	16919-58-7	$(\text{NH}_4)_2\text{PtCl}_6$	443.89	43.95	Slightly soluble in water
2.	Ammonium tetrachloroplatinate(II)	13820-41-2	$(\text{NH}_4)_2\text{PtCl}_4$	372.98	52.29	Water
3.	Dihydrogen hexachloroplatinate (IV)	26023-84-7	$\text{H}_2\text{PtCl}_6 \cdot 6\text{H}_2\text{O}$	409.82		Water, acetone, alcohol
4.	Iodotrimethylplatinum (IV)	14364-93-3	$(\text{CH}_3)_3\text{PtI}$	367.09	53.1	
5.	Platinum chloride (II)	10025-65-7	$\text{PtCl}_2$	266	73	$\text{HCl}, \text{NH}_4\text{OH}$
6.	Platinum chloride (IV)	13454-96-1	$\text{PtCl}_4$	336.9	57.9	$\text{H}_2\text{O}, \text{HCl}, \text{acetone}$
7.	Platinum (IV)oxide	1314-15-4	$\text{PtO}_2 \cdot x\text{H}_2\text{O}$	227.09	80- 84	
8.	Potassium tetrachloroplatinate	10025-99-7	$\text{K}_2\text{PtCl}_4$	415.11	46.99	Water
9.	Sodium hexachloroplatinate (IV)	19583-77-8	$\text{Na}_2\text{PtCl}_6 \cdot 6\text{H}_2\text{O}$	453.79	34	Water, acetone, alcohol
10.	Tetraammineplatinatate (II) chloride	13933-32-9	$\text{Pt}(\text{NH}_3)_4\text{Cl}_2 \cdot \text{H}_2\text{O}$	334.11	55.4	Water
11.	Platinum Nitrate Solution		$\text{Pt}(\text{NO}_3)_4$		100- 300 gm/kg	Air, light and heat Sensitive
12.	Karstedt catalyst 1% Pt solution in Toluene	68478-92-2	$\text{Si}[(\text{CH}_3)_2\text{CH} - \text{CH}_3]_2$		0.01	Air, light and heat Sensitive
13.	Karstedt catalyst 3% Pt solution in Toluene	68478-92-2	$\text{Si}[(\text{CH}_3)_2\text{CH} - \text{CH}_3]_2$		0.03	Air, light and heat Sensitive
14.	Karstedt catalyst 5% Pt solution in Toluene	68478-92-2	$\text{Si}[(\text{CH}_3)_2\text{CH} - \text{CH}_3]_2$		0.05	Air, light and heat Sensitive
15.	Karstedt catalyst 1% Pt solution in Xylene	68478-92-2	$\text{Si}[(\text{CH}_3)_2\text{CH} - \text{CH}_3]_2$		0.01	Air, light and heat Sensitive
16.	Karstedt catalyst 3% Pt solution in Xylene	68478-92-2	$\text{Si}[(\text{CH}_3)_2\text{CH} - \text{CH}_3]_2$		0.03	Air, light and heat Sensitive
17.	Karstedt catalyst 5% Pt solution in Xylene	68478-92-2	$\text{Si}[(\text{CH}_3)_2\text{CH} - \text{CH}_3]_2$		0.05	Air, light and heat Sensitive
18.	Karstedt catalyst 1% Pt solution in Hexane	68478-92-2	$\text{Si}[(\text{CH}_3)_2\text{CH} - \text{CH}_3]_2$		0.01	Air, light and heat Sensitive
19.	Karstedt catalyst 3% Pt solution in Hexane	68478-92-2	$\text{Si}[(\text{CH}_3)_2\text{CH} - \text{CH}_3]_2$		0.03	Air, light and heat Sensitive
20.	Karstedt catalyst 5% Pt solution in Hexane	68478-92-2	$\text{Si}[(\text{CH}_3)_2\text{CH} - \text{CH}_3]_2$		0.05	Air, light and heat Sensitive
21.	Karstedt catalyst 2% Pt solution in Toluene	68478-92-2	$\text{Si}[(\text{CH}_3)_2\text{CH} - \text{CH}_3]_2$		0.02	Air, light and heat Sensitive
22.	NEW Platinum Sulfite Acid (PSA) 15% W/ W	61420-92- 6	$\text{H}_4\text{O}_2\text{PtS}_2$		0.15	Air, light and heat Sensitive

## Palladium

Sr. No	Product Name	CAS	Mol.Form	Mol. Wt.	% Metal Content	Properties
1.	Trans - Dichlorodiammine palladium (II) Chloride	14323-43-4	$\text{Pd}(\text{NH}_3)_2\text{Cl}_2$	211.37	50.3	$\text{NH}_4\text{OH}$
2.	Diamminepalladium (II) nitrite	14852-83-6	$(\text{NH}_3)_2\text{Pd}(\text{NO}_2)_2$	232.47	46	
3.	Palladium (II) chloride	7647-10-1	$\text{PdCl}_2$	177.31	60	dil. HCl
4.	Potassium hexachloropalladate (IV)	16919-73-6	$\text{K}_2\text{PdCl}_6$	397.32	26.8	Slightly soluble in HCl
5.	Palladium (II) nitrate	10102-05-3	$\text{Pd}(\text{NO}_3)_2 \cdot x\text{H}_2\text{O}$	230.43	46.18	ddl, $\text{HNO}_3$
6.	Palladium (II) oxide	1314-08-5	$\text{PdO}$	122.4	87	48% HBr
7.	Potassium tetrachloropalladate (II)	10025-98-6	$\text{K}_2\text{PdCl}_4$	326.42	32.59	Water
8.	Potassium tetracyanopalladate (II)	14516-46-2	$\text{K}_2[\text{Pd}(\text{CN})_4] \cdot 3\text{H}_2\text{O}$	288.68	31.1	
9.	Sodium tetrachloropalladate (II)	13820-52-6	$\text{Na}_2\text{PdCl}_4 \cdot x\text{H}_2\text{O}$	294.2	36.17	Water, $\text{C}_2\text{H}_5\text{OH}$
10.	Palladium Nitrate Solution		$\text{Pd}(\text{NO}_3)_2$		50-150 gm/kg	

## Rhodium

Sr. No	Product Name	CAS	Mol.Form	Mol. Wt.	% Metal Content	Properties
1.	Ammonium hexachlororhodate (III)	15336-18-2	$(\text{NH}_4)_3\text{RhCl}_6 \cdot x\text{H}_2\text{O}$	369.74	27.83	Water
2.	Potassium hexachlororhodate (III)	13845-07-3	$\text{K}_3\text{RhCl}_6$	432.93	23.77	
3.	Rhodium (II) acetate, dimer	15956-28-2	$[\text{Rh}(\text{CO}_2\text{CH}_3)_2]_2$	441.99	46.57	Water
4.	Rhodium (III) chloride	20765-98-4	$\text{RhCl}_3 \cdot x\text{H}_2\text{O}$	209.26	39	Water, Alcohol, HCl
5.	Rhodium (III) sulphate 10% solution	10489-46-0	$\text{Rh}_2(\text{SO}_4)_3$	494	41.66	
6.	Rhodium octanoate dimer	73482-96-9	$[\text{Rh}(\text{C}_7\text{H}_{15}\text{COO})_2]_2$	778.62	26.46	Hot Alcohol, $\text{CH}_2\text{Cl}_2$ , Toluene, Acetic Acid
7.	Rhodium Nitrate Solution	*	$\text{Rh}(\text{NO}_3)_3$		70-100 gm/kg	Air, light and heat Sensitive
8.	Rhodium Iodide	15492-36-3	$\text{RhI}_3$	483.62	0.212	Air, and moisture Sensitive

## Iridium

Sr. No	Product Name	CAS	Mol.Form	Mol. Wt.	% Metal Content	Properties
1.	Ammonium hexachloroiridate (III)	15752-05-3	$(\text{NH}_4)_3\text{IrCl}_6 \cdot x\text{H}_2\text{O}$	459.06	41.9	
2.	Iridium chloride hydrate	14996-61-3	$\text{IrCl}_3 \cdot x\text{H}_2\text{O}$	298.58	64.4	Water, Alcohol
3.	Iridium (IV) oxide	12030-49-8	$\text{IrO}_2$	224.2	85.7	
4.	Sodium hexachloroiridate (III)	123334-23-6	$\text{Na}_3\text{IrCl}_6 \cdot x\text{H}_2\text{O}$	473.89	40.6	
5.	Potassium hexachloroiridate (IV)	16920-56-2	$\text{K}_2\text{IrCl}_6$	483.12	39.8	
6.	Iridium Acetate Solution 5-% W/W	52705-52-9	$\text{C}_{14}\text{H}_{24}\text{Ir}_3\text{O}_{18}$		5	Air, light and heat Sensitive

## Gold

Sr. No	Product Name	CAS	Mol.Form	Mol. Wt.	% Metal Content	Properties
1.	Ammonium tetrachloroaurate (III)	13874-04-9	$(\text{NH}_4)\text{AuCl}_4 \cdot x\text{H}_2\text{O}$	356.82	55.2	Water, Alcohol
2.	Gold (I) chloride	10294-29-8	$\text{AuCl}$	232.42	84.75	
3.	Gold (I) cyanide	506-65-0	$\text{AuCN}$	222.98	88.33	
4.	Hydrogen tetrachloroaurate (III)	27988-77-8	$\text{HAuCl}_4 \cdot x\text{H}_2\text{O}$	339.79	50	$\text{HNO}_3$
5.	Sodium tetrachloroaurate (III)	13874-02-7	$\text{NaAuCl}_4 \cdot 2\text{H}_2\text{O}$	361.77	49.5	Water, Alcohol, Ether
6.	Potassium tetrachloroaurate (III)	13682-61-6	$\text{KAuCl}_4$	377.88	52.1	Water

## Ruthenium

Sr. No	Product Name	CAS	Mol.Form	Mol. Wt.	% Metal Content	Properties
1.	Potassium pentachlororuthenate (III)	14404-33-2	$\text{K}_2\text{RuCl}_5 \cdot x\text{H}_2\text{O}$	356.54	28.3	
2.	Ruthenium (III) Chloride	14898-67-9	$\text{RuCl}_3 \cdot x\text{H}_2\text{O}$	207.43	38- 43	Water, Alcohol
3.	Ruthenium (III) Chloride	13815-94-6	$\text{RuCl}_3 \cdot x\text{H}_2\text{O}$	261.46	38.66%	Air Sensitive and Hygroscopic
4.	Ruthenium oxide ( 55%)	12036-10-1	$\text{RuO}_2 \cdot x\text{H}_2\text{O}$	133.07	55.00%	
5.	Ruthenium oxide ( 39%)	12036-10-1	$\text{RuO}_2 \cdot x\text{H}_2\text{O}$	133.07	39.00%	
6.	NEW Ruthenium Acetate 5%W/W Solution	55466-76-7	$\text{Ru}(\text{OAC})_n$		0.05	Air, light and heat Sensitive
7.	Ammonium Perrhenate	13598-65-7	$\text{NH}_4\text{ReO}_4$	268.23	69.4	

## Silver Solutions

Sr. No	Product Name	CAS	Mol.Form	Mol. Wt.	% Metal Content	Properties
1.	Silver bromide	7785-23-1	$\text{AgBr}$	187.78	57.44	Partially soluble in $\text{NH}_3$
2.	Silver (I) chloride	7783-90-6	$\text{AgCl}$	143.32	75.26	$\text{NH}_3$ , alkali cyanide
3.	Silver (I) fluoride	7775-41-9	$\text{AgF}$	126.87	85	$\text{HF}$ , $\text{NH}_3$ , $\text{CH}_3\text{CN}$
4.	Silver (I) iodide	7783-96-2	$\text{AgI}$	234.77	45.95	Wkali cyanides & iodides
5.	Silver (I) nitrate	7761-88-8	$\text{AgNO}_3$	169.87	63.5	Water, alcohol
6.	Silver (I) oxide	20667-12-3	$\text{Ag}_2\text{O}$	231.74	93	dil. $\text{HNO}_3$ , $\text{NH}_3$
7.	Silver powder	7440-22-4	$\text{Ag}$	107.86	99.99	dil. $\text{HNO}_3$
8.	Silver acetate	563-63-3	$\text{AgCOOCH}_3$	168.9	64.63	dilute nitric acid
9.	Silver lactate	128-00-7	$\text{AgCOOCH}(\text{OH})\text{CH}_3$	197.7	50-55	Water
10.	Silver carbonate	534-16-7	$\text{Ag}_2\text{CO}_3$	275.75	78.23	all acids

## Pure Metals

Sr. No	Product Name	CAS	Mol.Form	Mol. Wt.	% Metal Content	Properties
1.	Platinum black	07440-06-4	$\text{Pt}$	195.08	98	
2.	Platinum sponge	07440-06-4	$\text{Pt}$	195.08	99.95+	Aquaregia
3.	Palladium black	07440-05-3	$\text{Pd}$	106.4	98	
4.	Palladium sponge	07440-05-3	$\text{Pd}$	106.4	99.95+	
5.	Rhodium black	7440-16-6	$\text{Rh}$	102.9	98	
6.	Rhodium sponge	7440-16-6	$\text{Rh}$	102.9	99.9+	
7.	Iridium black	7439-88-5	$\text{Ir}$	192.22		
8.	Iridium sponge	7439-88-5	$\text{Ir}$	192.22	99.9	
9.	Gold powder	7440-57-5	$\text{Au}$	196.97	99.95+	
10.	Silver powder	7440-22-4	$\text{Ag}$	107.86	99.99	dil. $\text{HNO}_3$
11.	Ruthenium black	7440-18-8	$\text{Ru}$	101.07		
12.	Ruthenium powder	7440-18-8	$\text{Ru}$	101.07	99.9	



## **Hindustan Platinum**

**Hindustan Platinum Private Limited**

**R & D Lab:** C 122, TTC Industrial Area, Pawane, Navi Mumbai 400703, India.

**Corp. Office:** VIOS Tower, 22nd Floor, New Cuffe Parade, Mumbai 400 037, India.

Tel: +91 22 6922 5000 | E-mail: cc.sales@hp.co.in

[www.hindustanplatinum.com](http://www.hindustanplatinum.com)