



Hindustan Platinum

Precious Metal Heterogeneous Catalyst





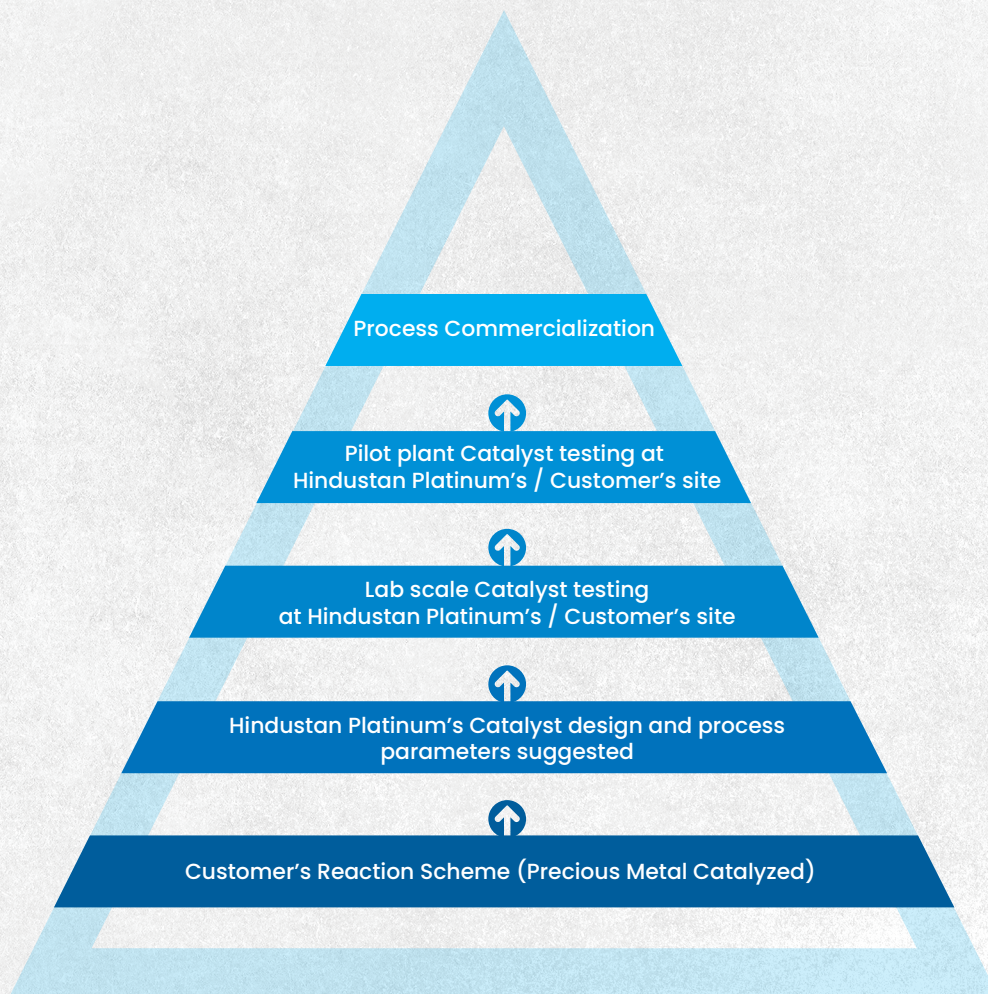
Hindustan Platinum

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

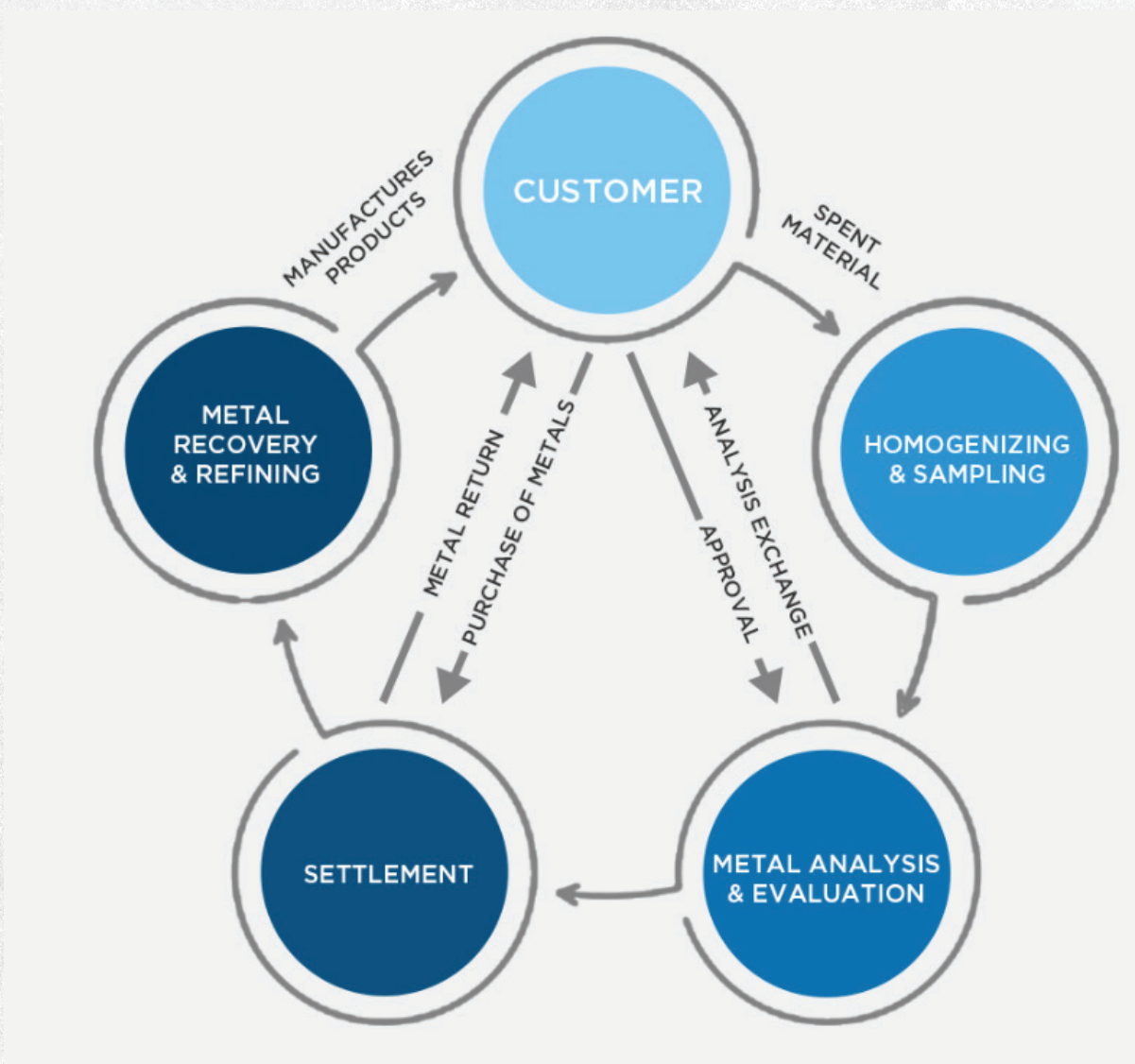
Hindustan Platinum collaborates closely with customers while maintaining strict confidentiality to create products that align with market demands. The catalyst development process is outlined below.





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.



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
		R-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
		R-1403(1,2,4,R7,8)	5%, 10% Pd/C
		R-1404 (2)	5%, 10% Pd/C
		R-1406 (5)	5%, 10% Pd/C
		R-1406 (2)	2.5%, 10% Pd/C
		R-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
		R-1129	1%, 2%, 5% Pt/C
		R-1317 T,(2) T(3)(9)/A	1%, 5% Pt/C
R-1670	10% Pt/C		
R-1871	5% Rh/C		
R-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
		R-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
		R-1403(1,2,4,R7,8)	5%, 10% Pd/C
		R-1404 (2)	5%, 10% Pd/C
		R-1406 (5)	5%, 10% Pd/C
		R-1406 (2)	2.5%, 10% Pd/C
		R-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
		R-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
		R-1403(1,2,4,R7,8)	5%, 10% Pd/C
		R-1404 (2)	5%, 10% Pd/C
		R-1406 (5)	5%, 10% Pd/C
		R-1406 (2)	2.5%, 10% Pd/C
		R-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
		R-1129	1%, 2%, 5% Pt/C
		R-1317 T,(2) T(3)(9)/A	1%, 5% Pt/C
		R-1670	10% Pt/C
		R-1375	5% Ru/C
R-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,
		R-1403(1,2,4,R7,8)	5%, 10% Pd/C
		R-1404 (2)	5%, 10% Pd/C
		R-1406 (5)	5%, 10% Pd/C
		R-1406 (2)	2.5%, 10% Pd/C
		R-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
		R-1129	1%, 2%, 5% Pt/C
		R-1317 T,(2) T(3)(9)/A	1%, 5% Pt/C
R-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
		R-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
		R-1403(1,2,4,R7,8)	5%, 10% Pd/C
		R-1404 (2)	5%, 10% Pd/C
		R-1406 (5)	5%, 10% Pd/C
		R-1406 (2)	2.5%, 10% Pd/C
		R-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		
R-1129	1%, 2%, 5% Pt/C		
R-1317 T,(2) T(3)(9)/A	1%, 5% Pt/C		
R-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
		R-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
		R-1403(1,2,4,R7,8)	5%, 10% Pd/C
		R-1404 (2)	5%, 10% Pd/C
		R-1406 (5)	5%, 10% Pd/C
		R-1406 (2)	2.5%, 10% Pd/C
		R-1407 (1,4,5,7)	5%, 10% Pd/C

Sr.No.	Reaction	Grade	Description
08	Hetroaromatic hydrogenation	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
		R-1403(1,2,4,R7,8)	5%, 10% Pd/C
		R-1404 (2)	5%, 10% Pd/C
		R-1406 (5)	5%, 10% Pd/C
		R-1406 (2)	2.5%, 10% Pd/C
		R-1407 (1,4,5,7)	5%, 10% Pd/C
		R-1375	5% Ru/C
R-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
		R-1403(1,2,4,R7,8)	5%, 10% Pd/C
		R-1404 (2)	5%, 10% Pd/C
		R-1406 (5)	5%, 10% Pd/C
		R-1406 (2)	2.5%, 10% Pd/C
		R-1871	5% Rh/C
		R-1365	10% Rh/C
R-1375	5% Ru/C		
R-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
		R-1129	1%, 2%, 5% Pt/C
		R-1317 T,(2) T(3)(9)/A	1%, 5% Pt/C
		R-1670	10% Pt/C
		R-1375	5% Ru/C
R-1376	5% Ru/C		
11	Dehydrogenation	RD-162	2%, 5% Pd/C
		RD-484	5%, 10% Pd/C
		RD-501	5%, 10% Pd/C
		R-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
		R-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 ₃
		R-1914	5% Pd/CaCO ₃
		LINDLAR	5% Pd Pb/CaCO ₃ ,
		-	5% Pd/BaSO ₄
		R-1765(W)	5% Pd/Al ₂ O ₃
		R-1667	4% Pd 1% Pt 5% Bi/C
		R-14	2% Pt /SiO
		R-2001	5% Pt/Al ₂ O ₃
		R-283 (A)	5% Pt/Graphite
		RD-8	5% Rh//Al ₂ O ₃
		R-2097	5% Ru/Al ₂ O ₃
R-2098	5% Ru/Al ₂ O ₃		
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 dehalogen	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
27	Double debenzylaton	RD-4194	5% Pd/Carbon Pellet
		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
28	Pearlman Catalyst	RD-4191	10% Pd/Carbon
		RD-4095	10% Pd/Carbon
		RD-4216	2.5% Pd/Carbon
		RD-4188	10% Pd/Carbon Pellet
29	Alkyne hydrogenation	RD-4235	5% Pd(OH) ₂ /Carbon
		RD-4236	10% Pd(OH) ₂ /Carbon
		RD-4237	20% Pd(OH) ₂ /Carbon
		RD-4238	20% Pd(OH) ₂ /Carbon
29	Alkyne hydrogenation	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
33	Dehalogenation	RD-4240	4% Ru & 1% Rh/Alumina Extrudate
		RD-4193	5% Pd/Carbon
		RD-4195	5% Pd/Carbon
		RD-4257	5% Pd/Carbon
34	Long Chain De-protection	RD-4256	10% Pd/Carbon
		RD-4255	5% Pd/Carbon
35	Partial dehalogenation	RD-4153	5% Pd/Carbon
		RD-4232	0.5% Pd/Carbon Pellet
36	Ring hydrogenation	RD-4233	0.5% Pd/Carbon Pellet
		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	Rosunmund 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

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Precious Metal Homogeneous Catalyst





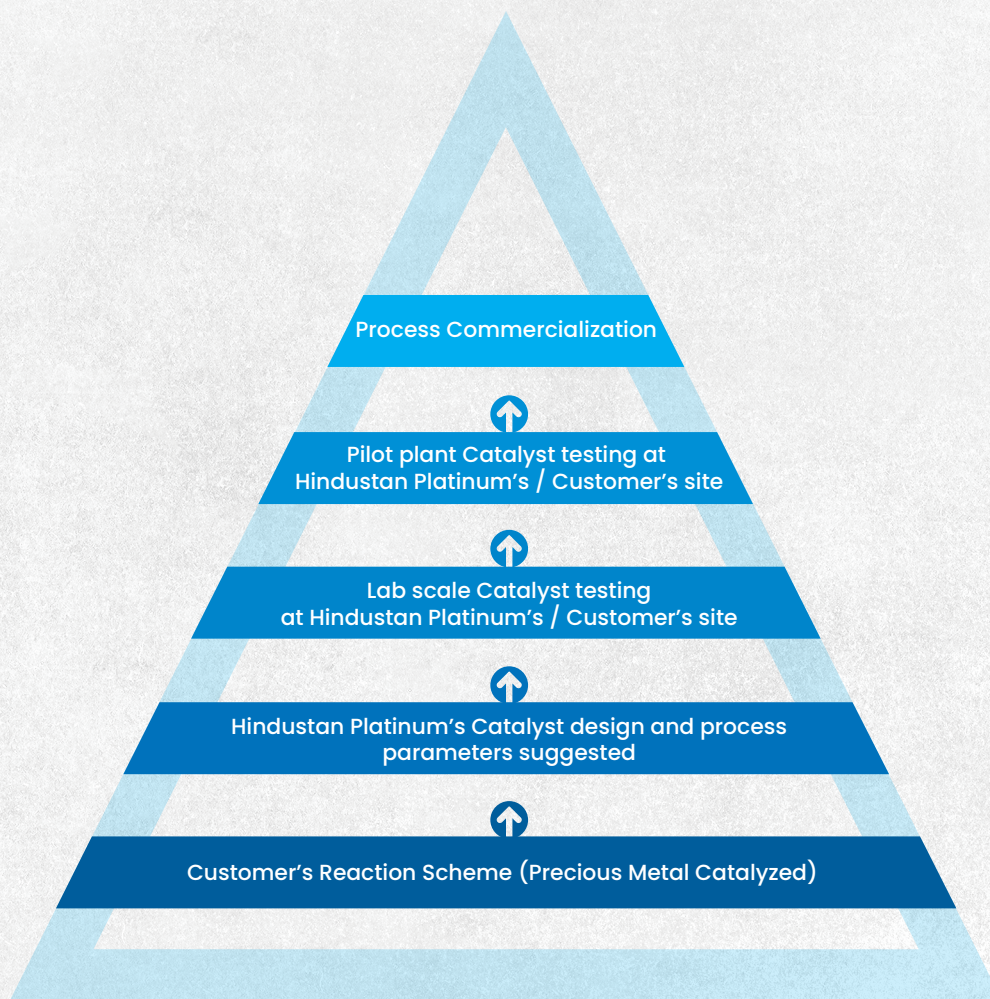
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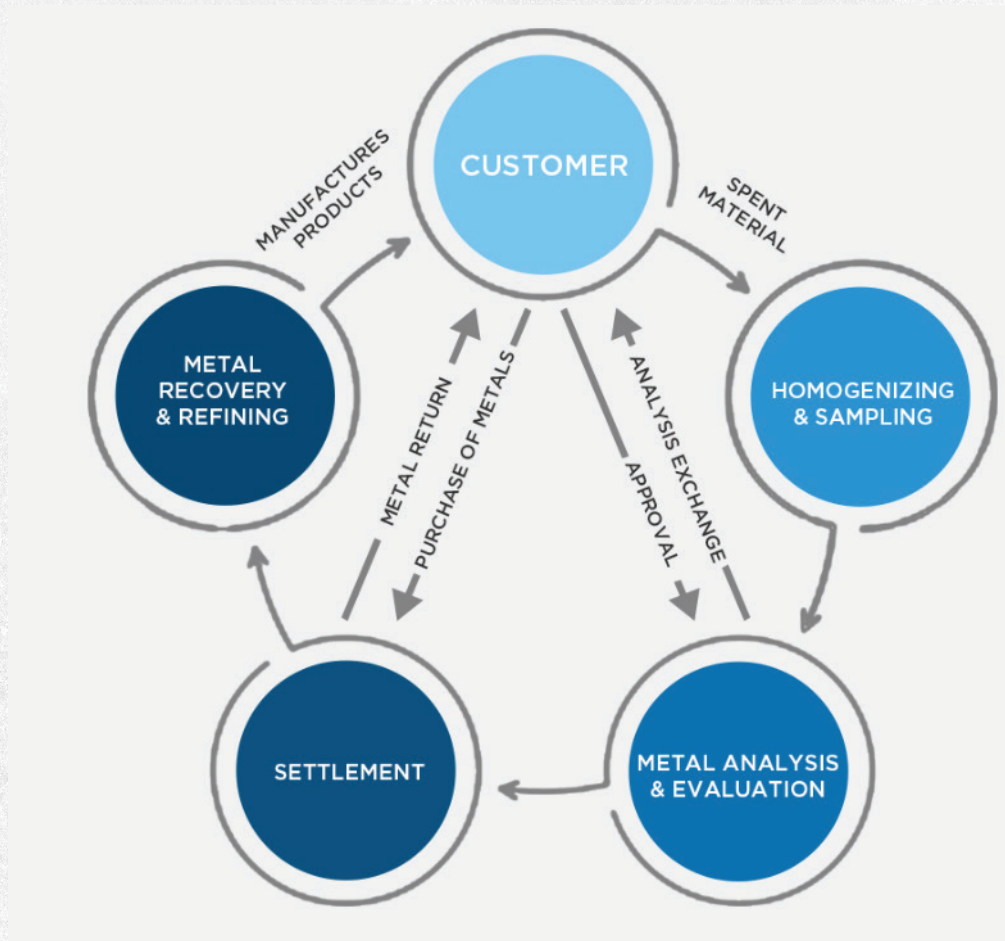
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Palladium Homogeneous Catalyst

Sr. No	Product Name	CAS	Mol.Form	Mol. Wt.	% Metal Content	Properties
1	Trans-Dichloro Bis (Acetonitrile) palladium (II)	14592-56-4	C ₄ H ₆ Cl ₂ N ₂ Pd	259.43	4101.00%	Heat Sensitive
2	Trans-Dichloro Bis Diphenyl phosphino ferrocene palladium (II)	72287-26-4	C ₃₄ H ₂₈ Cl ₂ FeP ₂ Pd	731.7	14.54%	Heat Sensitive
3	1,1'-Bis(diphenylphosphino) Ferrocene-palladium(II) Dichloromethane complex	95464-05-4	C ₃₅ H ₃₀ Cl ₄ FeP ₂ Pd	816.64	13.02%	Heat Sensitive
4	Bis (Dibenzylideneacetone) palladium (0)	32005-36-0	C ₃₄ H ₂₈ O ₂ Pd	575	18.50%	Air, Heat & Moisture Sensitive
5	Tris (Dibenzylideneacetone) -Dipalladium-chloroform adduct	52522-40-4	C ₅₂ H ₄₃ Cl ₃ O ₃ Pd ₂	1035.1	20.55%	
6	Tris(DiBenzylideneacetone) Dipalladium (0)	51364-51-3 / 52409-22-0	C ₅₁ H ₄₂ O ₃ Pd ₂	915.72	23.23%	Air and Moisture Sensitive
7	Trans-Dichloro Bis(Triphenyl phosphine) Palladium(II) dichloride	13965-03-2	C ₃₆ H ₃₀ Cl ₂ P ₂ Pd	701.9	15.15%	
8	Tetrakis(triphenyl phosphine) Palladium(0)	14221-01-3	C ₇₂ H ₆₀ P ₄ Pd	1155.56	9.20%	Air, light and Heat Sensitive
9	Bis(Benzonitrile) palladium(II) Chloride	14220-64-5	C ₁₄ H ₁₀ Cl ₂ N ₂ Pd	383.57	27.73%	Heat Sensitive
10	Palladium (II) acetyl acetate	14024-61-4	C ₁₀ H ₁₄ O ₄ Pd	304.64	34.92%	Heat Sensitive
11	Palladium Acetate	3375-31-3	C ₄ H ₆ O ₄ Pd	224.51	47.40%	Heat Sensitive
12	Dichloro Bis (Diterbutyl phenyl phosphine) palladium (II)	34409-44-4	C ₂₈ H ₄₆ Cl ₂ P ₂ 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 ₃₉ H ₃₂ Cl ₂ OP ₂ Pd	755.94	14.07%	Air, light and Heat Sensitive
14	Dichloro [1,1-Bis (Diterbutyl phosphinoferrocene) palladium (II)	95408-45-0	C ₂₆ H ₄₄ Cl ₂ P ₂ FePd	651.75	16.01%	Air, light and Heat Sensitive
15	Allyl Palladium (II) Chloride Dimer	12012-95-2	C ₃ H ₁₀ Cl ₂ Pd ₂	365.85	58.15%	Heat Sensitive
16	Bis Tri ter butyl Phosphine Pd (0)	53199-31-8	C ₂₄ H ₃₄ P ₂ Pd	511.05	20.81%	Air, light and Heat Sensitive
17	Dichloro(1,5-Cyclooctadine)Palladium (II)	12107-56-1	C ₈ H ₁₂ Cl ₂ Pd	285.51	37.26%	Hygroscopic
18	Dibromo(1,5-Cyclooctadine)Palladium (II)	12145-47-0	C ₈ H ₁₂ Br ₂ Pd	374.41	28.40%	Air, light and Heat Sensitive
19	1,2-Bis(diphenylphosphino)ethane] dichloropalladium(II)	19978-61-1	C ₂₆ H ₂₄ Cl ₂ P ₂ Pd	575.74	18.40%	Hygroscopic
20	<i>trans</i> -Benzyl(chloro)bis(triphenylphosphine) palladium(II)	22784-59-4	C ₄₃ H ₃₇ ClP ₂ Pd	757.58	14.04%	Heat Sensitive
21	Bis[1,2-bis(diphenylphosphino)ethane] palladium(0)	31277-98-2	C ₅₂ H ₄₈ P ₄ Pd	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 ₂ P ₂ Pd	589.77	18.04%	Air Sensitive
23	1,4-Bis(diphenylphosphino)butane-palladium(II) chloride	29964-62-3	C ₂₈ H ₂₈ Cl ₂ P ₂ Pd	603.8	17.60%	Air and moisture Sensitive
24	(Bicyclo[2.2.1]hepta-2,5-diene)dichloro palladium(II)	12317-46-3	C ₇ H ₈ Cl ₂ Pd	269.4	39.40%	
25	Palladium(II) trifluoroacetate	42196-31-6	(CF ₃ COO) ₂ Pd	332.45	32.01%	Heat and Moisture Sensitive
26	[(<i>R</i>)-(+)-2,2'-Bis(diphenylphosphino)-1,1'-binaphthyl]palladium(II) chloride	115826-95-4	C ₄₄ H ₃₂ Cl ₂ P ₂ Pd	800	13.30%	Air Sensitive
27	Dichlorobis(tricyclohexylphosphine) palladium(II)	29934-17-6	C ₃₆ H ₆₆ Cl ₂ P ₂ Pd	738.18	14.40%	Air and Moisture Sensitive
28	Dichlorobis(tri- <i>o</i> -tolylphosphine)palladium(II)	40691-33-6	C ₄₂ H ₄₂ Cl ₂ P ₂ Pd	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 ₂ FeP ₂ Pd. (CH ₃) ₂ CO	787.81	13.50%	Heat Sensitive
30	Pd(amphos)Cl ₂ (New)	887919-35-9	C ₃₂ H ₅₆ Cl ₂ N ₂ P ₂ Pd	708.07	15.02	Heat Sensitive
31	Palladium(π-cinnamyl) chloride dimer (New)	12131-44-1	C ₁₈ H ₁₈ Cl ₂ Pd	518.08	20.5	Air & Heat Sensitive
32	Dichloro[Bis(2-(Diphenyl phosphino) ether) Palladium (II) (New)	205319-06-8	C ₃₆ H ₂₈ Cl ₂ OP ₂ Pd	715.88	14.86	Air and Moisture Sensitive
33	Chloro (Tri Tert Butyl)(2-Amino-1,1-biphenyl-2-yl)Palladium(II)	1375325-71-5	C ₃₇ H ₃₇ CINPPd	512.4	20.76%	Air Sensitive
34	Bis Palladium diacetate triphenylphosphine	14588-08-0	C ₃₇ H ₃₇ CINPPd	512.4	14.20%	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 O ₈ Rh ₂	778.63	26.43%	
2	Rhodium (II) Acetate	15956-28-2	C ₈ H ₁₂ O ₈ Rh ₂	441.99	46.56%	
3	Chlorotris(triphenyl phosphine) rhodium (I) (Wilkinson Catalyst)	14694-95-2	C ₅₄ H ₄₅ ClP ₃ Rh	925.23	11.12%	Air & Heat Sensitive
4	1,5-Cyclooctadiene Rhodium(I) Chloride dimer (98%)	12092-47-6	C ₁₆ H ₂₄ Cl ₂ Rh ₂	493.08	40.99%	
5	Rhodium Norbornadiene	12257-42-0	C ₁₄ H ₁₆ Cl ₂ Rh 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 ₄ Rh	1153.12	8.90%	
8	Bis(1,5-cyclooctadiene)rhodium(I) tetrafluoroborate	35138-22-8	C ₁₆ H ₂₄ BF ₄ Rh	406.07	25.33%	Air and moisture Sensitive
9	Dichloro(pentamethylcyclopentadienyl) rhodium(III) dimer	12354-85-7	C ₁₀ H ₁₅ Cl ₄ Rh ₂	618.08	33.30%	
10	Carbonylchlorobis(triphenylphosphine) rhodium(I)	13938-94-8	C ₃₇ H ₃₀ ClOP ₂ Rh	690.94	14.90%	Heat Sensitive
11	Bis(cyclooctadiene)dihydroxo dirhodium	73468-85-6	C ₁₆ H ₂₆ O ₂ Rh ₂	456.19	45.11%	Air and moisture Sensitive
12	NEW Tris triphenylphosphine rhodium carbonyl hydride(RODRIDO)	17185-29-4	C ₅₅ H ₄₆ OP ₃ Rh	918.8	11.20%	Air and moisture Sensitive
13	NEW Acetylacetonato dicarbonyl rhodium (I)(CARAC)	14874-82-9	C ₇ H ₇ O ₄ Rh	258.04	39.90%	Air Sensitive
14	NEW Carbonyl-2,4-pentandionato triphenylphosphine Rhodium (I)(ROPAC)	25470-96-6	C ₂₄ H ₂₂ O ₃ PRh	493.32	20.85%	Heat Sensitive
15	Pentamethylatedcyclopentadiene Rhodium chloride (SS)TsDPEN New	219944-99-7	C ₃₁ H ₃₆ N ₂ ClO ₂ SRh	639.06	16.10%	
16	Pentamethylatedcyclopentadiene Rhodium chloride (RR)TsDPEN New	223392-99-2	C ₃₁ H ₃₆ N ₂ ClO ₂ SRh	639.06	16.10%	

Ruthenium Homogeneous Catalyst

1	Ruthenium-p-Cymene Dimer	52462-29-0	C ₂₀ H ₂₈ Cl ₄ Ru ₂	612.39	33.00%	
2	Rhuthenium Acetyl acetate	14284-93-6	C ₁₅ H ₂₁ O ₆ Ru	398.39	25.36%	Heat Sensitive
3	Ruthenium-p-Cymene-s-Binap	130004-33-0	C ₅₄ H ₄₆ Cl ₂ Ru	928.87	10.88%	Air and Moisture Sensitive
4	RuCl(p-cymene)[(S,S)-Ts-DPEN]	192139-90-5	C ₃₁ H ₃₅ ClN ₂ O ₂ RuS	636.21	15.88%	Air and Moisture Sensitive
5	RuCl(p-cymene)[(R,R)-Ts-DPEN]	192139-92-7	C ₃₁ H ₃₅ ClN ₂ O ₂ RuS	636.21	15.88%	Air and Moisture Sensitive
6	Ruthenium(II)-tris(triphenylphosphine) dichloride	15529-49-4	C ₅₄ H ₄₅ Cl ₂ N ₂ P ₃ Ru	958.83	10.50%	Air and Moisture Sensitive
7	Dichloro(1,5-cyclooctadiene) ruthenium(II), Polymer	50982-12-2	C ₈ H ₁₂ Cl ₂ Ru	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 ₄ P ₂ Ru	841.83	12.00%	Air, Light, Heat and Moisture Sensitive

Platinum Homogeneous Catalyst

1	Tetrakis(triphenyl phosphine) Platinum(0)	14221-02-4	C ₇₂ H ₆₀ P ₄ Pt	1244.21	15.68%	Air, light and heat Sensitive
2	Tris(dibenzylideneacetone)platinum(0)	11072-92-7	C ₅₁ H ₄₂ O ₃ Pt	897.08	21.70%	Air Sensitive
3	Platinum (II) Acetyl Acetate	15170-51-7	C ₁₄ H ₁₄ O ₄ Pt	393.3	49.60%	

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 P ₂ Pt	662.87	15.68%	Heat Sensitive

Precious Metal Salt & Solution

1	Ruthenium (III) Chloride Crystals	13815-94-6	RuCl ₃ .3H ₂ O	261.46	39.07%	Air Sensitive and Hygroscopic
2	Ruthenium oxide (55%)	12036-10-1	RuO ₂	157	55.00%	
3	Ruthenium oxide (39%)	12036-10-1	RuO ₂	157	39.00%	
4	Palladium Nitrate Solution	*	Pd(NO ₃) ₂		50-150 gm /kg	
5	Platinum Nitrate Solution	*	Pt(NO ₃) ₄		100-300 gm/kg	Air, light and Heat Sensitive
6	Rhodium Nitrate Solution	*	Rh(NO ₃) ₂		70-100 gm/kg	Air, light and Heat Sensitive
7	Rhodium Iodide	15492-36-3	RhI ₃	483.62	21.20%	Air, light and Heat Sensitive
8	NEW Ruthenium Acetate 5%W/W Solution	55466-76-7	Ru(OAC) _n		5.00%	Air, light and Heat Sensitive
9	NEW Platinum Sulfite Acid (PSA) 15 % W/W	61420-92-6	HOPtHO3S.H2O		15.00%	Air, light and Heat Sensitive
10	Ammonium Perrhenate	13598-65-7	NH ₄ ReO ₄	268.23	69.4	
11	Karstedt catalyst 1% Pt solution in Toluene		Si[(CH ₃) ₂ CH-CH ₃] ₂		1.00%	Air, light and Heat Sensitive
12	Karstedt catalyst 3% Pt solution in Toluene		Si[(CH ₃) ₂ CH-CH ₃] ₂		3.00%	Air, light and Heat Sensitive
13	Karstedt catalyst 5 % Pt solution in Toluene		Si[(CH ₃) ₂ CH-CH ₃] ₂		5.00%	Air, light and Heat Sensitive
14	Karstedt catalyst 1% Pt solution in Xylene		Si[(CH ₃) ₂ CH-CH ₃] ₂		1.00%	Air, light and Heat Sensitive
15	Karstedt catalyst 3% Pt solution in Xylene		Si[(CH ₃) ₂ CH-CH ₃] ₂		3.00%	Air, light and Heat Sensitive
16	Karstedt catalyst 5% Pt solution in Xylene		Si[(CH ₃) ₂ CH-CH ₃] ₂		5.00%	Air, light and Heat Sensitive
17	Karstedt catalyst 1% Pt solution in Hexane		Si[(CH ₃) ₂ CH-CH ₃] ₂		1.00%	Air, light and Heat Sensitive
18	Karstedt catalyst 3% Pt solution in Hexane		Si[(CH ₃) ₂ CH-CH ₃] ₂		3.00%	Air, light and Heat Sensitive
19	Karstedt catalyst 5% Pt solution in Hexane		Si[(CH ₃) ₂ CH-CH ₃] ₂		5.00%	Air, light and Heat Sensitive
20	Karstedt catalyst 2% Pt solution in Toluene		Si[(CH ₃) ₂ CH-CH ₃] ₂		2.00%	Air, light and Heat Sensitive



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