



Hindustan Platinum

Precious Metal Heterogeneous Catalyst





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





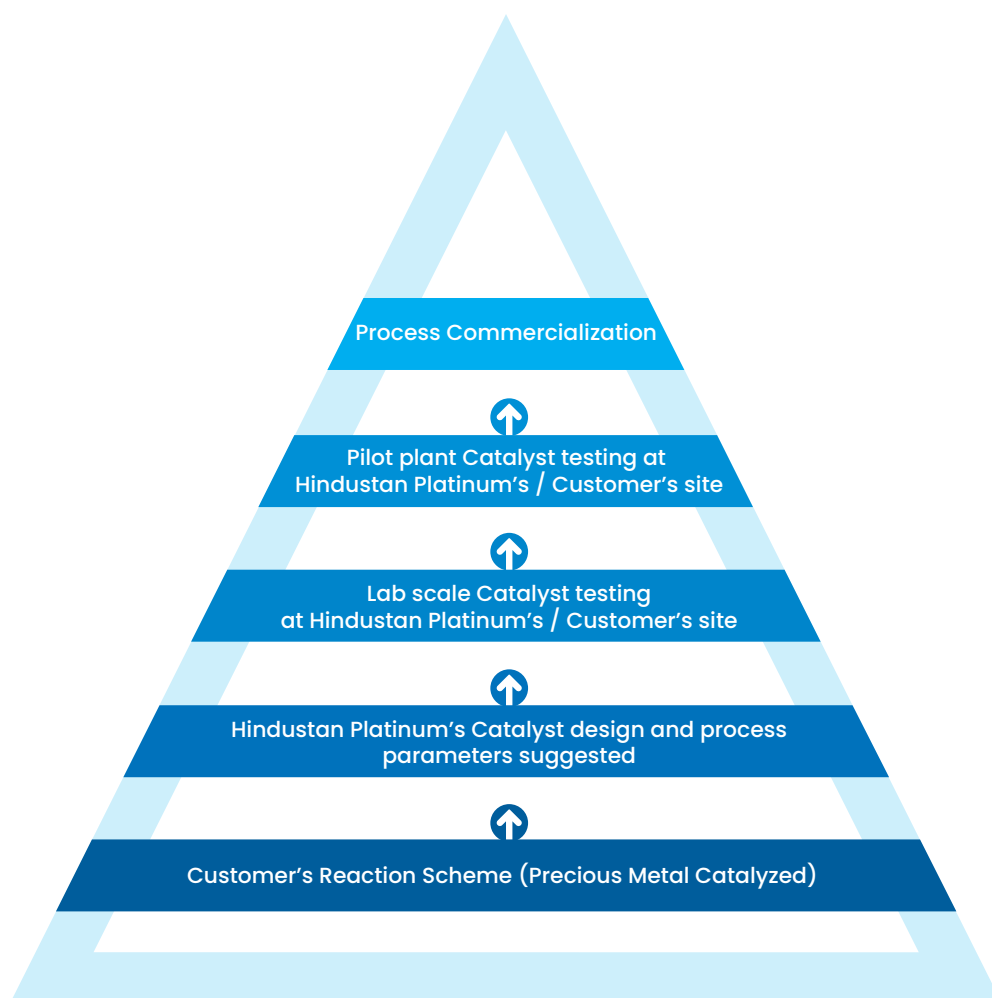
Hindustan Platinum

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.





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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	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
		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
		RD-4093	5% Pd/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
		RD-4112	5% Pt/Carbon
24	Bamberger Rearrangement	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
		RD-4101	10% Pt/Carbon
		RD-4113	10% Pd/Carbon
25	Coupling Reaction (Suzuki and Heck)	RD-4095	10% Pd/Carbon
		RD-4161	10% Pd/Carbon
		RD-4273	5% Pd/Carbon
26	Debenzylation	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
		RD-4216	2.5% Pd/Carbon
		RD-4183	10% Pd/Carbon
27	Double debenzylolation	RD-4161	10% Pd/Carbon
		RD-4182	10% Pd/Carbon
		RD-4183	10% Pd/Carbon
		RD-4191	10% Pd/Carbon
		RD-4095	10% Pd/Carbon
		RD-4216	2.5% Pd/Carbon
28	Pearlman Catalyst	RD-4188	10% Pd/Carbon Pellet
		RD-4235	5% Pd(OH) ₂ /Carbon
		RD-4236	10% Pd(OH) ₂ /Carbon
		RD-4237	20% Pd(OH) ₂ /Carbon
29	Alkyne hydrogenation	RD-4238	20% Pd(OH) ₂ /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

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