



PROCAT
grow...evolve...grow

Catalyst Catalogue

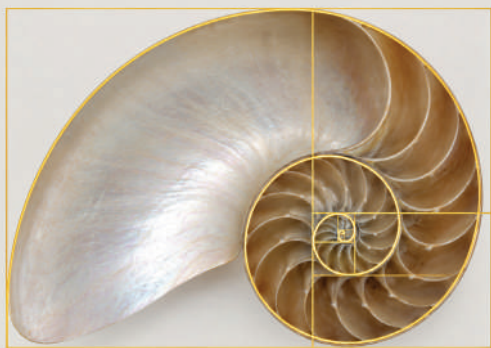


Offering a wide range of catalysts tailored
for your specific reaction needs.

AT PROCAT

We are working to develop highly selective catalysts and catalytic processes for various reactions such as alkylation, acylation, oxidation, hydroxylation, isomerization, nitration etc.

The main focus of the organization is to work in collaboration with customers, be their partners in development and make available these catalysts on commercial scale to help replace the conventional polluting, non-catalytic processes with environmentally sustainable and more efficient processes.



The Nautilus Shell, whose spiral perfectly follows this ratio, has come to symbolize its harmony. Described as both golden and divine, it represents a deeper understanding of the unity between science, nature, and spirituality.

For us at PROCAT, it embodies our pursuit of beauty, perfection, and performance in catalyst design. Just as the universe evolves through stages from the growth of civilizations to the evolution of species we, too, draw inspiration from the Golden Ratio to chart our own journey of growth, innovation, and contribution toward a more sustainable future.

SILICA ALUMINA CATALYSTS

Advanced zeolite-based & silica–alumina solid-acid catalysts engineered for high selectivity and extended catalyst life, with tunable acidity for demanding chemical processes.

ZEOLITE CATALYSTS

Grades	Application	Examples
PROCAT ZB0P	Acylation	Acylation of anisole
PROCAT™ ZM0E	Isomerization	Xylenes, Toluidine, Cresols
PROCAT™ ZMd0E	Alkylation	Alkylation of m-cresol to Thymol
PROCAT™ ZTOP	Hydroxylation	Anisole to MEHQ & Guaiacol, Phenol to Hydroquinone & Catechol
	Epoxidation	Propylene to Propylene Oxide, Styrene to Styrene Oxide
PROCAT™ ZS0P	Selective Opening of Epoxide ring	Styrene Oxide to Phenyl acetaldehyde (PAA)
PROCAT™ ZX2E	O-alkylation	PC to PCME, Phenol to Anisole



Please note that the images here are not representative of the true colour of the products.

SILICA ALUMINA CATALYSTS

ALUMINA CATALYSTS

Grades	Application	Examples
PROCAT™ AG0E	Dehydration	Dehydration of alcohol, Methanol to DME
PROCAT™ AP0E – 50	O-Alkylation	Catechol to Guaiacol
PROCAT™ AP0E - 30	Dehydration and ring formation	DEG to 1,4 Dioxane
	Dehydration	Dehydration of Alcohols to Ethers (High purity): Ethanol to DEE, Methanol to DME

SILICA CATALYSTS

Grades	Application	Examples
PROCAT™ SS0P	Nitration	Nitration of Benzene, Toluene
	Epoxidation	Styrene to Styrene Oxide
PROCAT™ SS11P PROCAT™ SS12P	Esterification	Ethanol to Ethyl Acetate



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MIXED METAL OXIDE CATALYSTS

Engineered mixed-metal oxide catalysts for selective oxidation & other demanding bulk & continuous processes, available in fixed-bed compatible & shaped forms for reliable, predictable performance.

Note: Our catalysts are available in various shaped forms. In all the above trade names last Character represents form of the catalyst as follows;

Character	Examples
E	Extrudes
P	Powder
S	Spheres
T	Tablets

12 Mg Magnesium 24.30	13 Al Aluminium 26.98	22 Ti Titanium 47.90	23 V Vanadium 50.94	24 Cr Chromium 52.00	25 Mn Manganese 54.94	26 Fe Iron 55.85
27 Co Cobalt 58.93	29 Cu Copper 63.55	30 Zn Zinc 65.40	40 Zr Zirconium 91.22	42 Mo Molybdenum 95.95	55 Cs Cesium 132.9	56 Ba Barium 137.3

Grades	Application/Examples
PROCAT™ CA15T	Methanol Synthesis catalyst
PROCAT™ CR3P	Reduction / Fatty ester to fatty alcohol
PROCAT™ CR4P PROCAT™ CR4E PROCAT™ CR4T	Selective Hydrogenation / Hydrogenation of Menthone to Menthol
PROCAT™ CR15T	N-Alkylation / For Alkylation of Amine to produce mono alkylated product Aniline + methanol to N(CH ₃) ₂
PROCAT™ TiO ₂	Isomerization / Alpha Pinene to Camphene
PROCAT™ CS0P	Selective Hydrogenation of Carbonyl without affecting double bond: >C=O to >CH-OH
PROCAT™ DHC0E PROCAT™ DHC0T	Decarboxylation Dehydration / Propionic acid to Diethyl Ketone (DEK)

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About Us:

Procat, based in Dombivli, Maharashtra, combines dedicated R&D and manufacturing capabilities to develop advanced catalyst and materials solutions for chemical manufacturing. Its portfolio spans **Zeolite and silica-alumina catalysts, Mixed Metal Oxides**, shaped catalysts and emerging materials such as MOFs, with a focus on application-driven innovation, selective performance, process efficiency and scale-up from development to commercialization.



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Our Websites and Updated Catalyst Guide
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