Technical Data Sheet

5% Ruthenium On Carbon

Formula	Ru/C (Heterogeneous Mixture)
Grade	RM 301319 RM 306423 RM 308419 RM 304123
Appearance	Fine Black Powder
Metal Loading	4.5% to 5.5 %
Active Metal	Ruthenium
Support Matrix	Activated Carbon
Moisture %	50% (Wet)

Storage Condition

- Store : Store in a tightly, closed container,
- Atmosphere: Store under an inert gas atmosphere (Nitrogen or Argon) to prevent oxidation and moisture absorption.
- Fire Prevention: Store away from open flames, sparks, heat sources, and combustible materials.

Application

- Ru/C is highly effective at hydrogenating stable aromatic rings (like benzoyls, pyridines, and piperidines) under much milder temperatures and pressures.
- selective for reducing aldehydes and ketones to their corresponding primary and secondary alcohols without unintentionally cleaving fragile carbon-oxygen single bonds (hydrogenolysis).
- Used for hydrogenation of benzene to cyclohexane.
- Aromatic ring and Aliphatic carbonyl hydrogenation.