

# 改質触媒/PROX触媒/酸化触媒

## Reforming Catalyst / PROX Catalyst / Oxidation Catalyst

### 改質触媒 Reforming catalyst

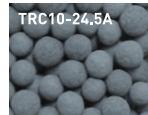
水蒸気改質触媒とは、天然ガスなどの炭化水素から水素を生成する触媒です。

Reforming catalyst is used to generate hydrogen from hydrocarbons in natural gas.

#### 特長 Features

- ルテニウムでカーボン析出を抑制
- 幅広い温度領域で活性を維持
- 新規開発触媒で副生アンモニアとカーボン析出を同時に抑制
- Inhibit the deposition of carbon by Ruthenium
- Activity is maintained at wide temperature range
- Suppression of by-produced NH<sub>3</sub> and carbon deposition with a newly developed catalyst.

Product name	Metal	Shape
TRC10-24.5A	Ru	Spherical Approx. 2mm
TRC413-2.4A	Rh	



### PROX触媒 Preferential Oxidation Catalyst for Carbon Monoxide

固体高分子形燃料電池(PEFC)に使用される改質ガス中に含まれる一酸化炭素を酸素によって選択的に酸化除去するための触媒です。

This catalyst is used to selectively remove carbon monoxide from reforming gas in PEFC.

#### 特長 Features

- 高分酸化した貴金属により、高空間速度領域に於いても高活性
- 低温から高温まで幅広い温度領域で活性を示す
- 低貴金属担持量でも高い活性を維持し、低コストでの触媒提供が可能
- High activity even at a high space velocity thanks to highly dispersed catalytic precious metal.
- Activity is maintained at a wide range of temperatures from low to high.
- Despite a low precious metal content, the catalysts maintain a high level of activity, which enables us to offer catalysts at low cost.

Product name	Metal	Shape
TSSA-5	Ru	Spherical Approx. 2mm



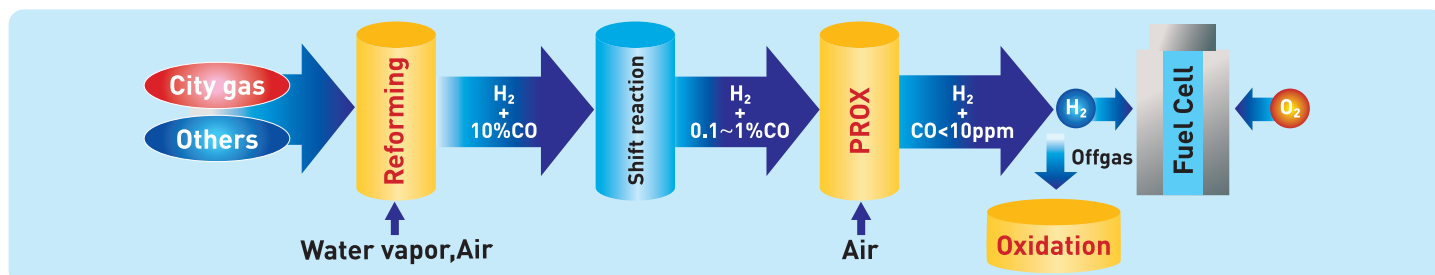
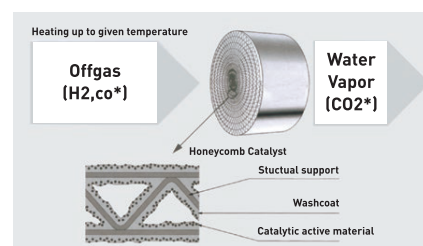
### 酸化触媒 Oxidation Catalyst for Offgas Combustion

酸化触媒は未燃の炭化水素、一酸化炭素、水素を酸素によって酸化除去するための触媒です。

The oxidation catalyst is a catalyst for the removal of non-combustible hydrocarbons, carbon monoxide and hydrogen by oxygen

#### 特長 Features

- メタルハニカム構造体で、表面積が同セル数の他構造体と比較して大きい
- 断面開孔率が高いので、処理ガス通過圧力損失を抑制
- 金属で構成された触媒構造体のため、落下、押込みなどの物理的強度が高い
- The metal honeycomb structure has a larger surface area than conventional structures with the same number of cells.
- The metal honeycomb structure has a high cross section aperture ratio, reducing the drop in gas pressure.
- The metal honeycomb structure has a high physical strength against drop impact and pushing force.



- お客様のご要望に合わせたカスタマイズ触媒の試作・受託生産等のご相談も承っております。
- We can also receive consultation about customized catalyst and contract manufacturing.



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