

燃料電池用電極触媒

Fuel Cell Electrocatalyst

田中貴金属工業(株)では、新しいエネルギーとしての燃料電池の将来に大きな期待を持ち、電極触媒の開発を進めてまいりました。これからも更なる性能向上、耐久性向上を目指して開発を進めてまいります。

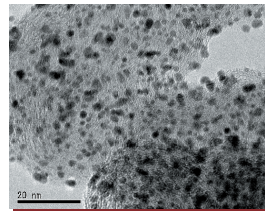
Tanaka Kikinzoku Kogyo K.K. has long been developing electrocatalysts with great expectation for the future of Fuel Cell. We will continue to obtain further improve

カーボン担持Pt触媒 Pt Catalysts on Carbon Support

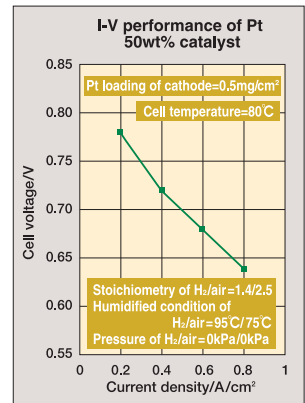
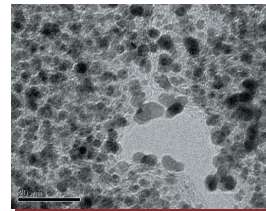
- 先進ナノテクノロジーにより、カーボンブラック上にPt粒子(1-4nm)を高分散に担持
- 触媒担持技術とカーボン担体の最適化により、カソード触媒として優れた酸素還元性能を発揮
- Highly dispersed Pt particles (1-4nm) supported on carbon black with our advanced nano-technology
- Excellent performance for oxygen reduction as cathode catalyst with optimized preparation technique and carbon support

Pt Catalyst

Pt loading:50wt%



Pt loading:70wt%

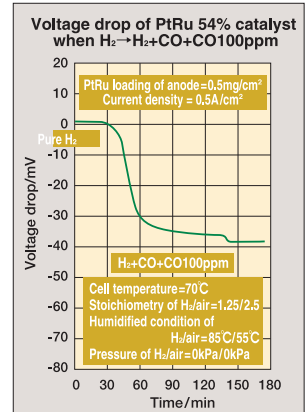
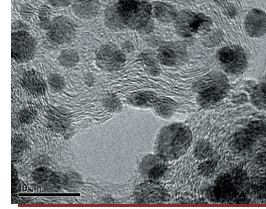
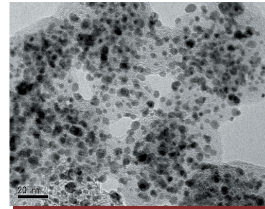


カーボン担持Pt/Ru触媒 Pt/Ru Catalysts on Carbon Support

- 先進ナノテクノロジーにより、カーボンブラック上にPt/Ru粒子(4-6nm)を高分散に担持
- 触媒担持技術とカーボン担体の最適化により、アノード触媒として優れた一酸化炭素耐性を発揮
- Highly dispersed Pt/Ru particles (4-6nm) supported on carbon black with our advanced nano-technology
- Excellent performance for CO tolerance as anode catalyst with optimized preparation technique and carbon support

Pt/Ru Catalyst

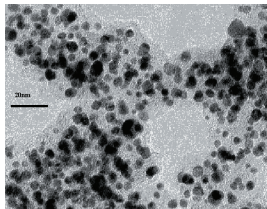
Pt/Ru loading:54wt%



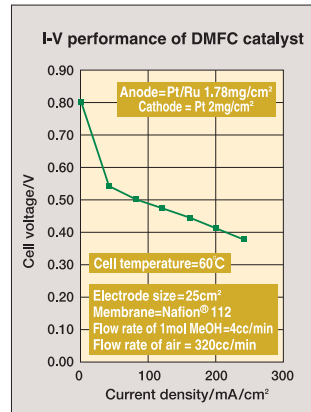
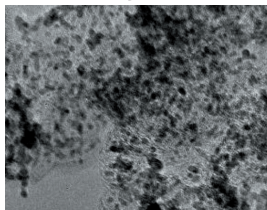
DMFC用Pt/Ru触媒 Pt/Ru Catalysts for DMFC

DMFC Catalyst

Pt/Ru loading:54wt%



Pt/Ru loading:81wt%



高性能カソード触媒

High performance Catalysts for cathode

■ 高性能Pt/Co触媒 High performance

■ 高耐久性Pt触媒 High Durability

High-performance Pt/Co catalyst and highly-durable Pt catalyst

