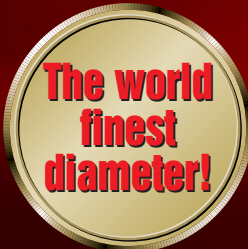


MOTOR SPORTS  
DENSO  
IRIDIUM POWER  
CHINA  
INDONESIA  
KOREA  
MALAYSIA  
PHILIPPINES  
SAUDIARABIA  
SINGAPORE  
TAIWAN  
THAILAND  
JAPAN  
EUROPE & USA  
MOTOR CYCLE  
SMALL ENGINE  
CROSS REFERENCE  
PART NUMBER

The finer the center electrode, the higher performance it provides!



# 0.4mm dia. Iridium Alloy Center Electrode

(excluding embedded electrode types)

# IRIDIUM POWER Series

Dramatically improves engine power, quick response, and durability! So, just what is **IRIDIUM POWER**?

By mounting a new iridium alloy (a precious metal with a very high melting point) on the tip of the center electrode, we perfected an ultra-fine diameter: 0.4 mm. This ultra-fine electrode greatly reduces the necessary spark voltage and improves ignitability, extending engine power and acceleration response at high speeds. (Melting points: Iridium: 2,454°C; Platinum: 1,769°C)



Received the "Arch T. Colwell Merit Award" in March 2001 from the Society of Automotive Engineers (SAE), the world's authority, and awarded the "President's Prize" by the Japan Patent Attorneys Association in June 2001.

Document title: *Development of New Iridium Alloy for Spark Plug Electrodes*

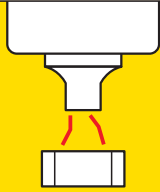
*Invention of an iridium spark plug with high performance and long life*

Award winners: Hironori Osamura (Senior Manager of Engineering Center 1, DENSO Ceramic Engineering Department); Nobuo Abe (Manager of Engineering Center 1, DENSO Ceramic Engineering Department); in addition to two other members

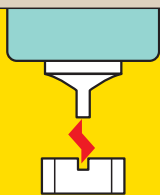


## POINT 1 Spark

(Example: Platinum plug)  
1.1 mm diameter



0.4 mm diameter



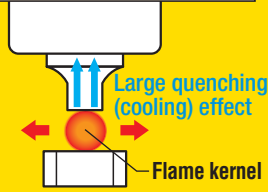
Example:  
Lightning is attracted to pointed objects.

A finer diameter center electrode generates a more stable spark!

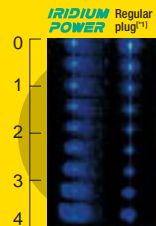
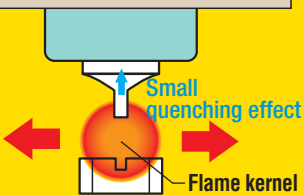
Stable combustion

## POINT 2 Ignition

(Example: Platinum plug)  
1.1 mm diameter



0.4 mm diameter



The photograph is a comparison of how combustion spreads with general-use plugs and **IRIDIUM POWER**.

[\*1] Comparison with 2.5 mm diameter electrode

The finer-center electrode absorbs less heat energy!

Instantaneous combustion



### Specifications Include Terminal

A terminal nut is attached that fits with most of the world's spark plug cables. Please remove the nut for installations that do not require one. (Excluding IWM & IK-G types)

### Built-in, Highly Reliable Resistor

All **IRIDIUM POWER** plugs include a highly reliable, 5,000 Ω monolithic resistor specification to reduce electromagnetic noise that may affect electronic devices. (For all plug types)

### Highly Corrosion Resistant, Burnished Nickel Plating

Highly corrosion resistant, burnished nickel plating The plug housing is plated with burnished nickel, the same as plugs used for racing. It is highly resistant to corrosion and rust even while touring in continually rainy weather and during motocross events. (Excluding low-heat range types)

### 0.4 mm Diameter Ultra-fine Iridium Center Electrode

Using a new iridium alloy with a very high melting point, the tip of the electrode can be made very fine. This enables the reduction of voltage necessary to cause the spark, and greatly improves ignitability. Moreover, the special iridium alloy used was developed by DENSO with the following patented processes (for all types): Japan (2877035, 2921524, 3000955), U.K. (2302367), U.S.A. (5977695, 6078129, 6093071, 6094000, 6262522), People's Republic of China (961022841), Republic of Korea (0292083).

### 360 Laser Welding

The process used to mount the iridium tip is a highly reliable "360° Laser Welding" process that is able to withstand all kinds of driving conditions. (For all plug types)