

mtu Series 4000 Gas Generator Sets



MORE THAN JUST A SPARE PART...

mtu X52404500059 spark plug



... the component, that protects your Natural Gas system.

mtu spark plugs are engineered for demanding gas engine applications where reliability, efficiency, and lifecycle value matter most. The X52404500059 pre-chamber spark plug is optimized for biogas, oil & gas, and fast start operations, delivering stable combustion performance even under lean operating conditions and higher combustion temperatures. Its advanced pre-chamber design

enhances efficiency, enables the engine to operate across broader combustion ranges and maximizes lifetime compared to conventional spark plugs. Because when a spark plug fails, it's never just a component failure. It's lost uptime, disrupted operations, and avoidable cost.

Industrial high temperature body technology
for stable resistance over lifetime

SAE monoblock terminal and ribbed insulator
for better electrical robustness

Unique ni-plated shell hot-locking assembly
increases mechanical strength against
dynamic combustion pressures

Increased HEX height of shell
for better installation tool stability

Pre-chamber cap for optimized combustion
material with better heat transfer properties



A Rolls-Royce
solution

Benefits of *mtu* spark plugs

Only we can guarantee genuine spark plugs that are designed, tested and approved specifically for *mtu* engines and systems.



Engineered for maximum lifetime while ensuring optimal engine reliability and availability



Proactive supersession and obsolescence management covering the complete lifecycle



Approved by certified engineers to secure value sustainability of your Series 4000 *mtu* equipment



Factory / OEM warranty coverage incl. professional service support



Supported by our global state-of-the-art Parts Logistic Centers



Sustaining the value of your equipment. Only *mtu* parts live up to *mtu* standards

Applications: Natural Gas (all applications like Trope, EU etc.)



Technical specifications

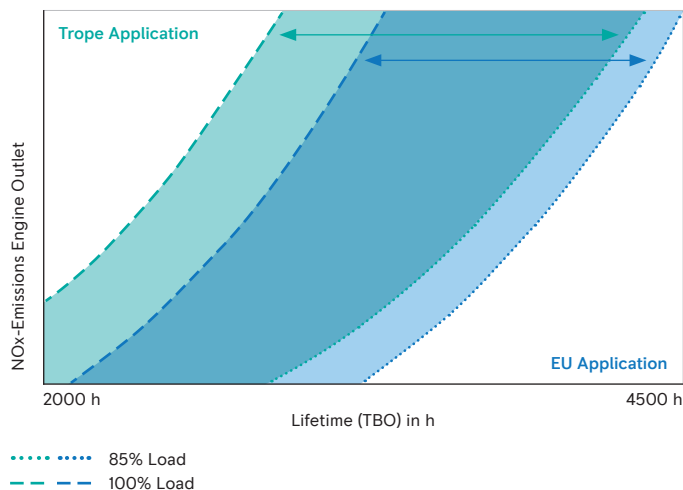
Properties	<i>mtu</i> spark plug
Hex	AF 20.8
Thread	M18 x 1.5
Electrode material	Platinum/Iridium
Electrode gap	nom 0.35 (pre- adjusted)
Tightening Torque	50 Nm

Reduce electrode wear – optimized further with thermal paste

The technical key for ensuring availability of *mtu* X52404500059 spark plug is the application of thermal paste. As it significantly reduces the temperature on the electrodes, a reduction of electrode wear is achieved. Under the precondition, that thermal paste is used, availability and lifetime of *mtu* spark plug can thus be boosted to a maximum. The following thermal pastes have been approved by our *mtu* certified technicians and can be ordered via your service dealer:

Material number	Size of bin
X00077589	Container (493g)
X00093272	Small tube (70g)
X00089439	Large can (750g)

mtu X52404500059 lifetime guideline values¹⁾



1) Depending on the NO_x threshold and engine operating conditions of your Natural Gas system, *mtu* X52404500059 spark plug can reach up to 4500 operating hours in EU application and up to 4300 operating hours in the Trope application, under precondition that thermal paste is used.

Want to learn more?

Contact your local *mtu* service partner to learn more about *mtu* Spare Parts. Find your service partner at www.mtu-solutions.com