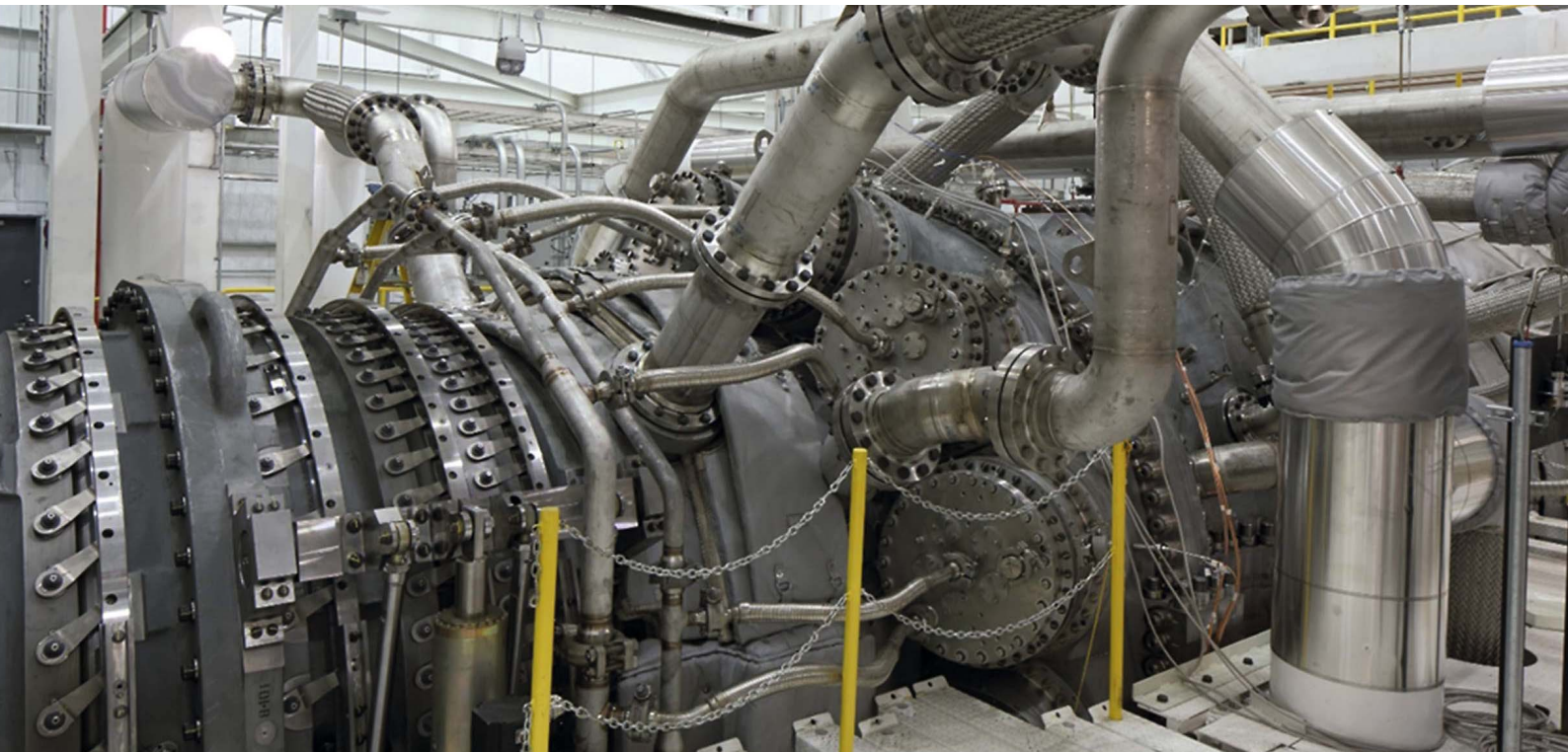




GREEN FUEL CATALYST

Power Generation Applications

For Reduction of Fuel Consumption and Emissions



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Made in USA

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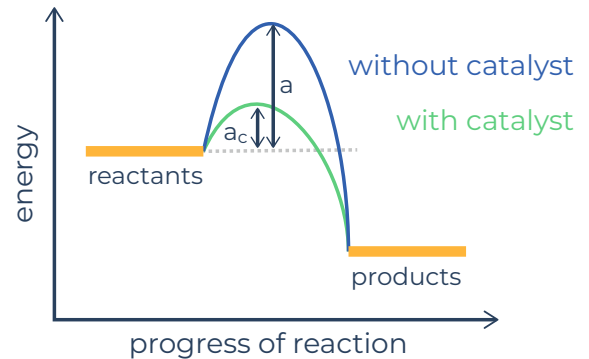
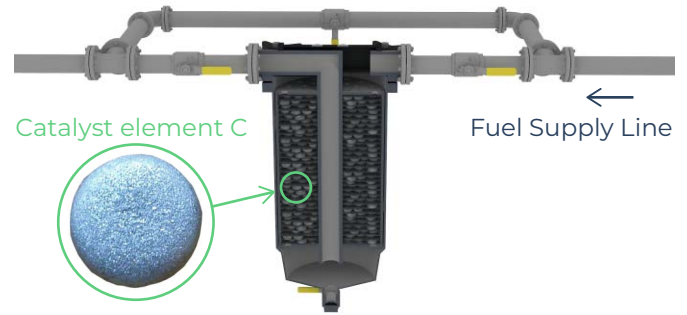


Patented Fitch® fuel catalyst technology

Operating Principle

Patented Fitch® catalyst technology consists of a Heterogeneous Metallic Alloy Composition (HMAC) which reduces activation energy of the chemical combustion reaction.

Catalyst reverses the naturally occurring hydrocarbon fuel biodegradation (Oxidation-Reduction) process by inducing selective hydrogen abstraction and redistribution (Hydrogenation) that promotes selective Oxidation (formation of Alcohols, Aldehydes). Catalyst cracks the aromatic (non-reactive) compounds forming oxygen containing molecules with greater energy yield and higher combustibility.



Catalyst alloy performs at ambient temperatures and pressures, and in the fuel restoration process is not consumed lasting for 10,000 operating hours.

Overview

- ◆ Reformulating all fuel types
- ◆ Average ROI 4 to 6 months
- ◆ No moving parts
- ◆ No electrical hook up
- ◆ No significant pressure loss
- ◆ No magnets
- ◆ No chemical additives
- ◆ Minimum overall maintenance with no maintenance for lighter fuels
- ◆ Easy to install (after fuel filter, before burner or generator)
- ◆ Excellent results with fuels like (HFO, IFO, Diesel)
- ◆ Military grade and quality
- ◆ UL Listed

Benefits

- ◆ Reduce fuel consumption by over 2%
- ◆ Reduce carbon footprint and greenhouse gases by over 2%
- ◆ Improve fuel lubricity
- ◆ Reduce bacteria growth
- ◆ Enhance and stimulate combustion
- ◆ Enhance useful energy content
- ◆ Ensure fuel quality during storage
- ◆ Increase Cetane number
- ◆ Improve generator power and torque
- ◆ Lower soot content in the lubricating oil
- ◆ Minimize fuel system maintenance
- ◆ Minimize exhaust system maintenance
- ◆ Reduce carbon build up within boiler
- ◆ Extend burner/boiler/turbine lifetime

Application Range

- ◆ Boilers
- ◆ Furnaces
- ◆ Turbines
- ◆ Generators
- ◆ Dryers
- ◆ Heating and Industrial processing
- ◆ Any other application that uses liquid fuel

Technical Specification

- ◆ Die-cast aluminum head
- ◆ Steel bowl assembly
- ◆ Viton “O” ring seal
- ◆ Wide range of NPT threads
- ◆ Black powder coated components
- ◆ Locking ring collar
- ◆ Designed to withstand 150 PSI (10 bar)
- ◆ Maximum temperature with Viton “O” ring 437 °F (225 °C)
- ◆ Manual drain and vent valves
- ◆ Low pressure drop of 1.5 PSI (10 kPa)
- ◆ High pressure units up to 24 bar available upon request

Fuel Flow Rate per Catalyst Model

Catalyst Model	Diesel/ Bio Diesel Liter/h	Heavy Fuel Oil Liter/h	Catalyst Model	Diesel/ Bio Diesel Liter/h	Heavy Fuel Oil Liter/h
HO-2UL	8	5	FHD20-UL	76	53
HO-5UL	19	13	FHD25-UL	95	66
HO-10UL	38	26	FHD-30-114-2	114	79
HO-20UL	76	53	FHD-40-151-2	151	106
HO-25UL	95	66	FHD-50-189-2	189	132
HO-35UL	132	93	FHD-60-227-2	227	159
HO-50UL	189	132	FHD-70-265-2	265	185
HO-75UL	284	199	FHD-80-303-2	303	212
HO-100UL	379	265	FHD-90-341-2	341	238
FHD5-UL	19	13	FHD100-379-2	379	265
FHD10-UL	38	26	FHD110-416-2	416	291
FHD15-UL	57	40	FHD120-454-3	454	318

Installation Samples

◆ New York City Buildings (US)

Installations:

More than 900 properties

Fuel Savings: 5 to 12%



◆ Tri-Marine SolTuna Tuna Cannery (Solomon Islands)

Installations: 3x Genset engines and 1 x day tank

Engine: Mitsubishi 1000 kW

Day tank volume: 2000 liter

Fuel Savings: 7%



◆ Amanpulo Resort on Pamalican Island (Philippines)

Installations: 3 x Cat Gensets

Engines: 2 x Cat 3512 (1015 kW)

1 x Cat 3508 (600 kW)

Fuel Savings: 13,5%



◆ Codetel (Claro) (Republica Dominicana)

Installations: 452 generators

Fuel Savings: 7,6%

