

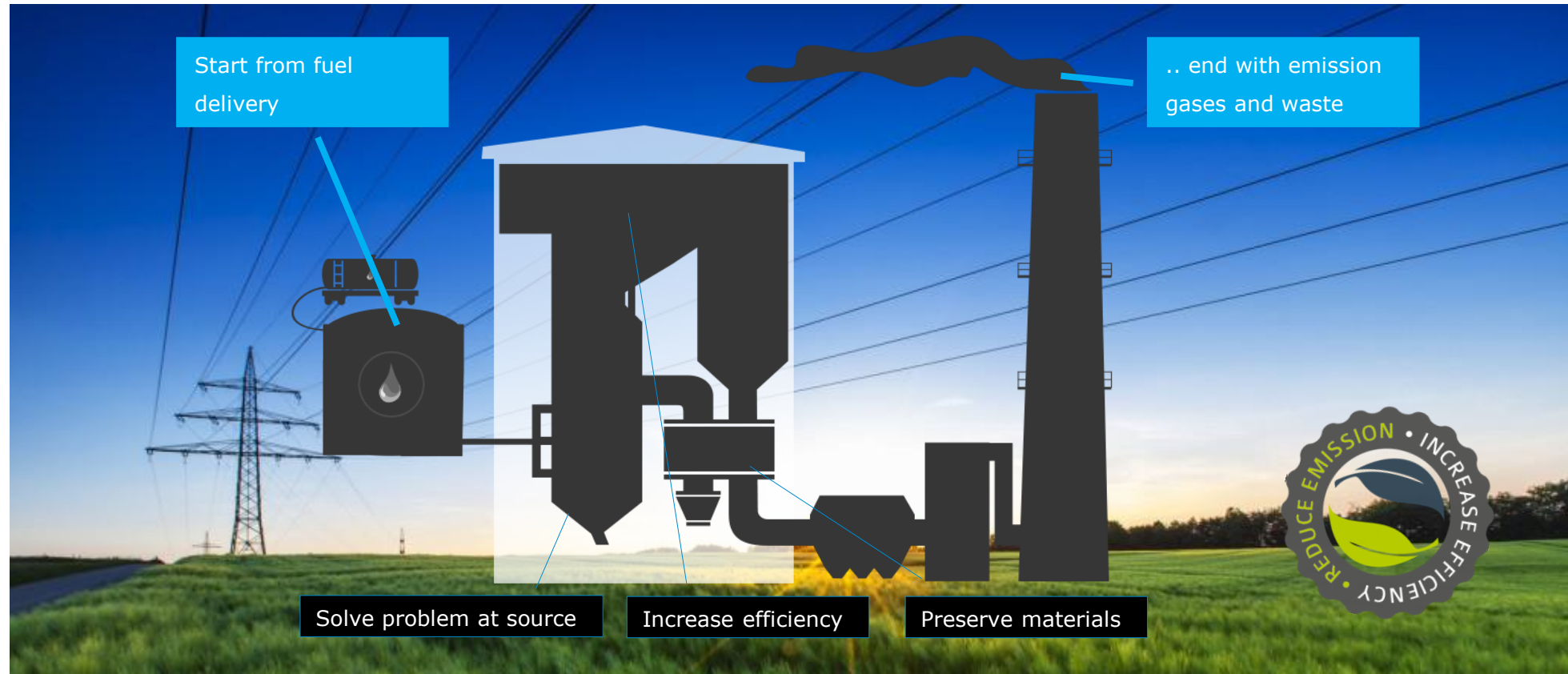


Carbon fuel treatment

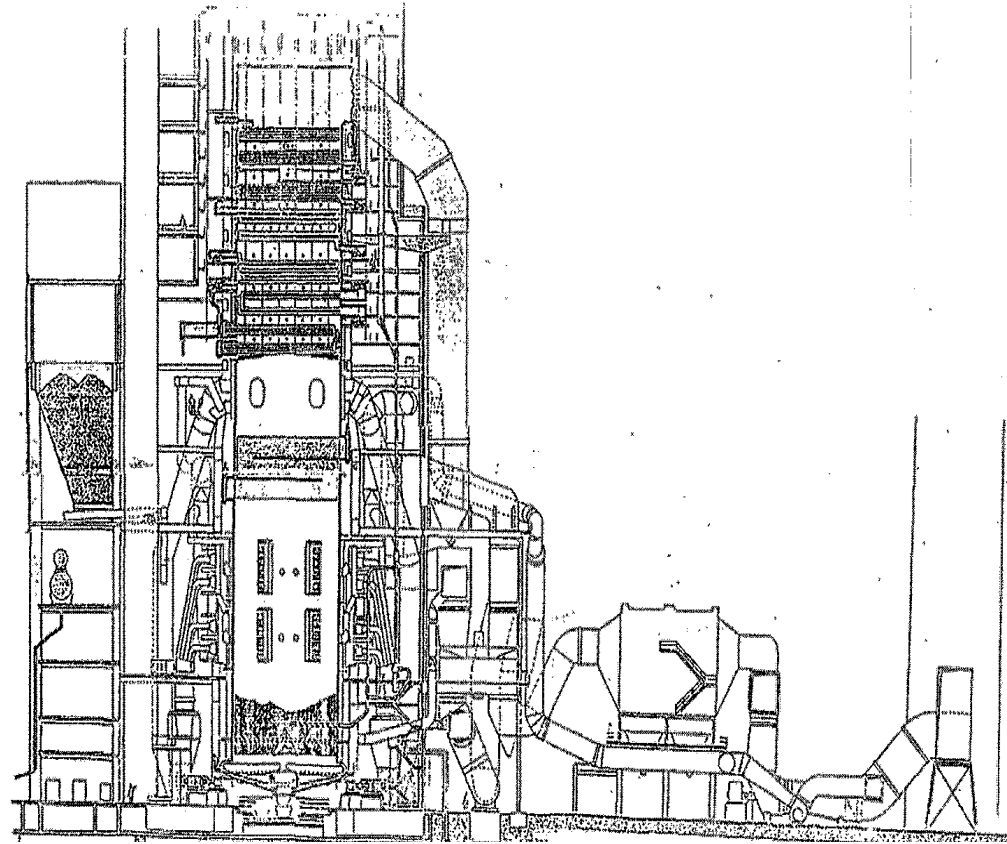
Specialized in combustion
optimization



Increase efficiency – Reduce emission



Increase efficiency – Reduce emission



Problems

- High temperature deposition, slagging and corrosion result when the ash in the coal is liquid at combustion gas temperatures and adheres to the tubes upon striking them and causes deposits to form.
- This layer of deposits has the effect of:
 - ✓ Lowering heat transfer
 - ✓ Reducing gas flow rates
 - ✓ Increasing maintenance and out-of-service cleaning time.

Problems

- Considerable loss in energy production due to the reduction of heat exchange.
- Greater consumption of coal per MWh etc.
- Efficiency reduce of electro-filter
- Cleaning pipes boiler heating surfaces with sandblast method proved inefficient and harmful because it undermines external surfaces of the pipe and results with fast return of impurities or deposits.



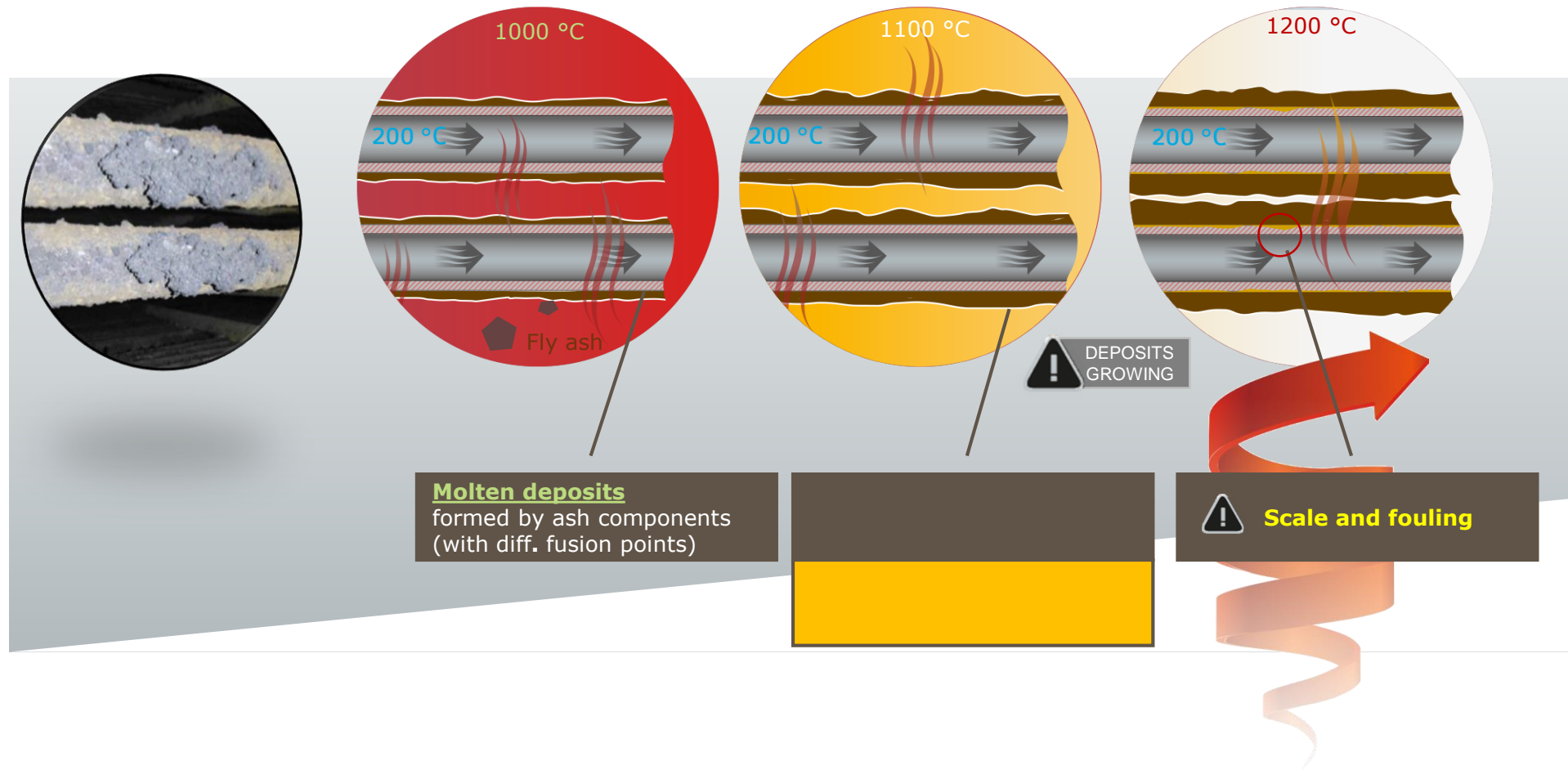
Problems



Problems



Problems

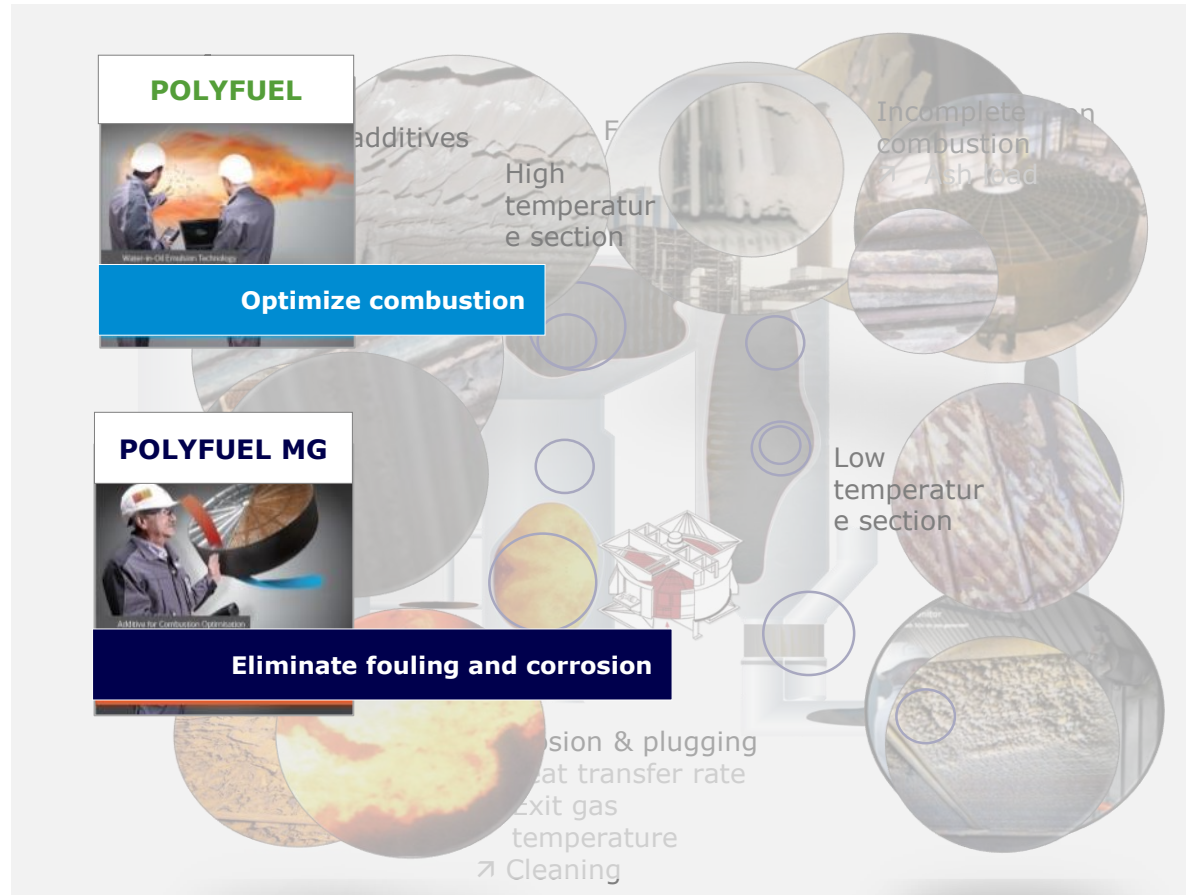


Coal treatment

For combustion optimization



Acquaflex technologies for coal combustion optimization



POLYFUEL RPT 600 Series

- Reduces high temperature corrosion and fouling
- Reduces low temperature corrosion and fouling



POLYFUEL RPT 600 Series

- RPT 600 - Fireside Deposit Inhibitor
- RPT 601 MG - Fireside Deposit Inhibitor for Coal Firing Boilers
- RPT 602 – Liquid Fireside Deposit Inhibitor
- RPT 603 - Powder Fireside Deposit Inhibitor
- RPT 604 – Liquid Fireside Deposit and Corrosion Inhibitor



Description and use

The RTP 600 Series products are specially formulated blends of metallic oxides or metallic salts.

The products are designed to:

- Control high temperature corrosion
- Reduce slagging and fouling
- Minimize low temperature corrosion and fouling
- Reduce acid smut and acid mist.
- RTP 600 Series product's metallic oxides or metallic salts combine with the ash constituents. The resulting compounds are solid at gas temperatures. The ash is then carried through the boiler instead of depositing on the tubes.



Description and use

In high temperature areas the products:

- make easier deposit removal



POLYFUEL RPT 600 Series

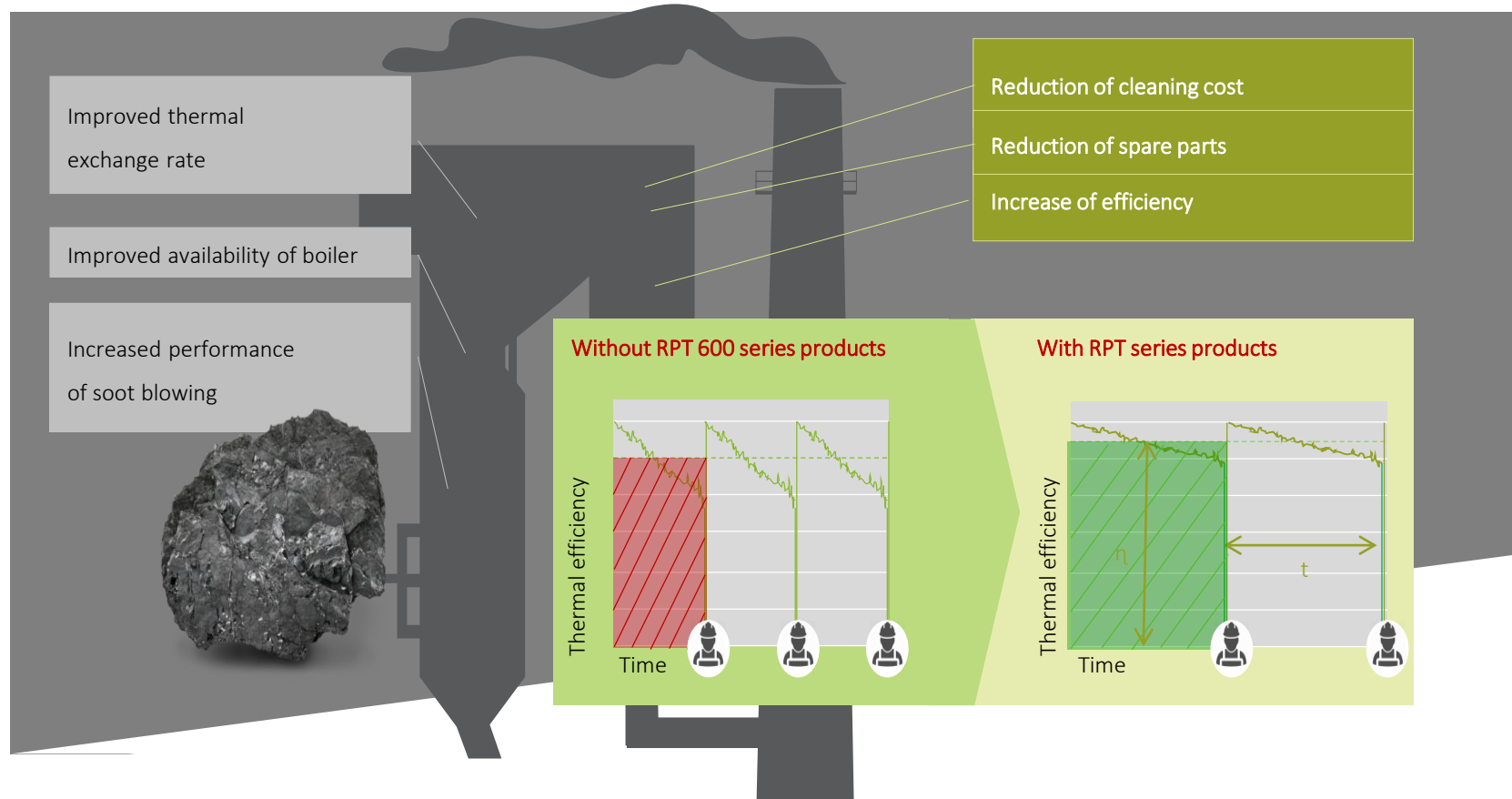
Product Number	Powder, Liquid or Slurry	Main Constituent	Feedrate Guidelines
RPT 600	Slurry	Magnesium Oxide	125 - 250 ppm
RPT 601 MG	Slurry	Magnesium Oxide And Copper Oxychloride	150 ppm
RPT 602	Liquid	Magnesium Carboxylates	100 ppm - 300 ppm
RPT 603	Powder	Mg-Al-Fe Silicate - Vermiculite	250 - 1000 ppm
RPT 604	Liquid	Magnesium Nitrate	200 - 600 ppm



Dosing regime

Product Number	Powder or Liquid or Slurry	Feedrate Guidelines	Dosing Point	Dosing Method
RPT 600	Slurry	125 - 250 ppm	On Coal Belt	Diaphragm Pump And Tank
RPT 601 MG	Slurry	150 ppm	On Coal Belt	Diaphragm Pump And Tank
RPT 602	Liquid	100 ppm - 300 ppm	Spray Atomisation Into The Furnace	Diaphragm Pump And Tank
RPT 603	Powder	250 - 1000 ppm	Powder	Powder Blower
RPT 604	Liquid	200 - 600 ppm	On Coal Belt	Diaphragm Pump And Tank

Economic balance



Enviromental benefits



Reduced emission

- Unburned carbon by up to 90%
- NOx by up to 30%
- CO₂ and acid smut fallout



Acquaflex srl

Via Italo calvino 7, 20017 Rho (MI) Italy
Tel 02 93163856 fax 02 93508222 info@acquaflex.com
www.acquaflex.com

