

Safely Doing More With Propane Powered Floor Equipment

By Jeffrey Nicholas

Early 1900's Electric floor machines

1950's Swing machines or "side
by side"

1950's Variable speed buffers

1960's Chemical manufacturers

1960's Pad manufacturers and
new technology

1970's Cord electric high speed
buffers

Late 1970's into early 1980's
introducing propane powered
floor burnishers

History of Floor Maintenance Equipment



The Pad Industry

Birth of the Propane Industry

1910 - Dr Walter Snelling with the US Bureau of Mines discovers propane.

1912 - Dr Snelling established American Gasol Co. First commercial marketer of propane.

1933 – An odorant was developed and added to propane to easily detect leaks

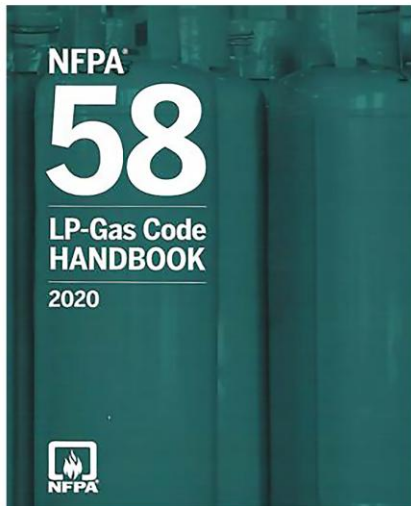
1990 – Propane listed as an approved alternate clean fuel. 1990 Clean Air Act.

1992 - Included in the Energy Policy Act.

Propane FAQ's

- What is propane?
- Where does it come from?
- Why propane?
- Who uses propane?
- How propane is distributed.





Industry Regulations

- CGA
- OSHA
- DOT
- UL
- LEED
- NFPA

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CLEANING TIMES

The Cleaning Industry's
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Determining cord electric costs:

ISSA Cleaning Time Estimator Standards

Based on 1000 square feet at \$20.00 hourly labor rate

Cord electric

<u>175 RPM</u>	<u>350 RPM</u>	<u>1500 RPM</u>
45 min	30 min	15 min
\$15 labor	\$10 labor	\$5 labor

Note: Divide 60 minutes by 45 min equals 1.33
NEXT: divide \$20 by 1.33 equals \$15 labor

Lower priced cord electric 'buffer' labor costs on 10,000 square feet to be buffed:

175 RPM @ \$15 = \$150 labor per hour of buffing

350 RPM @ \$10 = \$100 labor per hour of buffing

1500 RPM @ \$5 = \$50 labor per hour of buffing

ISSA Cleaning Time Estimator Standards

Propane @ 2000 RPM on the floor with Pad Pressure
3.5minutes per 1000 square feet

Divide 60 minutes by 3.5 (minutes) equals 17 units of 3.5 minutes in 1 hour

NEXT: Divide \$20 by 17 equals
\$1.18 labor

Propane 2000 rpm on the floor burnishing on 10,000 sqft = \$11.80 labor

Yield:

Labor Savings

Slip resistant shine

Reduced product usage

Question: “Should I consider adding propane powered floor equipment to my fleet of machines?”

Open to audience question/answer/discussion

Thank you for your interest and attendance!

Determining propane burnisher costs:

In conclusion:
Q & A

Thank you for your
participation and
interest!

