



SPACE FLIGHT AWARENESS

SPACE SHUTTLE REUSABLE SOLID ROCKET MOTOR TEAM



PF[®] Solvent

PT Technologies Tucker, GA

PT Technologies' PF Solvent, a high flash-point solvent used in degreasing and cleaning processes, plays an important role in America's Space Shuttle program.

Because PT Technologies' PF Solvent is nonconductive and leaves no residue, ATK Thiokol Propulsion's Mix/Cast work center relies on it for the cleaning of hardware components, mix bowl rails, and blades, and prior to bond preparation when casting each RSRM segment. Clean surfaces and tooling are critical to providing a safe quality product.

ATK Thiokol's Clearfield Operations and Final Assembly also utilize PF Solvent to clean tooling, painted components, and miscellaneous bolts, pins, and actuator brackets used in the manufacturing processes. PF Solvent does not contain chlorinated solvents; therefore, it helps to ensure a clean safe work environment.

ATK Thiokol thanks PT Technologies for supporting NASA's Space Shuttle program and helping to ensure the safety of America's astronauts by providing a quality product.

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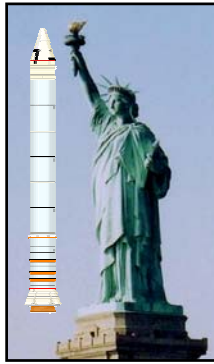
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RSRM Facts...

- Each stacked Space Shuttle booster is nearly the same height as the Statue of Liberty, minus the pedestal, but weighs almost three times as much
- Each RSRM burns 4.5 tons of propellant per second, a total of 1.1 million pounds during its 120-second burn time
- A pair of RSRMs are more powerful than 35 jumbo jets at takeoff
- It takes only 8 minutes for the Space Shuttle to accelerate to a speed of more than 17,000 miles per hour
- RSRM combustion gases reach a temperature of 6,100°F, which is two-thirds the temperature of the sun's surface



- During flight, each RSRM generates approximately 15,400,000 horsepower, or as much horsepower as 51,300 Corvettes
- If their heat energy could be converted to electric power, two RSRMs firing for 2 minutes would produce 2.2 million kilowatt hours of power, or enough power to satisfy the needs of 87,000 homes for a full day

More than 500 astronauts and scientists from around the world have safely ridden into orbit to explore, research, build, repair, and foster international relationships.



FIND OUT MORE...

Shuttle Website

<http://www.shuttle.msfc.nasa.gov>

MSFC Website

<http://www.msfc.nasa.gov>

ATK Thiokol Propulsion

<http://www.atk.com>

NASA Human Spaceflight

<http://spaceflight.nasa.gov/index-n.html>

NASA Today

<http://www.nasa.gov/today/index.html>

NASA News

<http://www.nasa.gov/hqpao/newsroom.html>

KSC Homepage

<http://www.ksc.nasa.gov>

JSC Homepage

<http://www.jsc.nasa.gov>

Project Manager: NASA

Jody Singer

joan.s.adams@nasa.gov

256-544-0612

Project Manager: ATK Thiokol

Cary Ralston

cary.ralston@atk.com

435-863-2258

Customer Contact

Doug Leishman

douglas.leishman@atk.com

435-863-5863



Partnering With The Nation's Shuttle Team

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