

SPACE FLIGHT AWARENESS

SPACE SHUTTLE REUSABLE SOLID ROCKET MOTOR TEAM

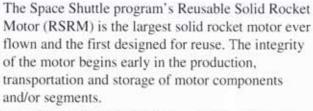




VpCI-126 & VpCI-136 for RSRM Safety

CORTEC CORPORATION® St. Paul, MN







CORTEC CORPORATION's VpCI-126 & VpCI-136 products are used in the RSRM manufacturing process to protect against the potential corrosion of the five-inch CP (center perforated) motor nozzle, and the Booster Separation Motor (BSM) exit cone and BSM igniter cap. The BSM separate the RSRM from the obiter at approximately 128 seconds into flight. The Five-inch CP motors are used in determining the RSRM propellant formulation / burn-rate. Also, the VpCI-126 plastic bag servers as protection from environment contamination.



NASA and ATK Thiokol are appreciative of CORTEC CORPORATION 's attention to detail and focus on quality.

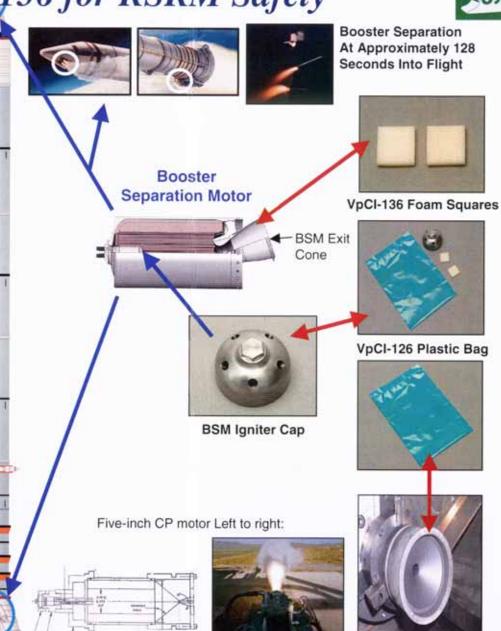


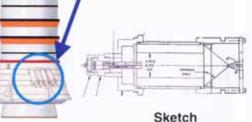










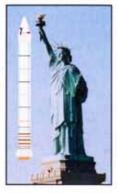




Nozzle

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 nearly 5 tons of propellant per second, or a total of 1.1 million pounds during its 120-second burn time



- Each RSRM has the maximum thrust of 32 Boeing 747s 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 approach 6,100°F, approximately two-thirds the temperature of the sun's surface



- During flight, each RSRM generates approximately 15,400,000 horsepower, or as much horsepower as 38,500 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



FIND OUT MORE ...

Shuttle Website

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

MSFC Website

http://www.msfc.nasa.gov

ATK Thiokol

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

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Partnering With The Nation's Shuttle Team

