# Characteristics Summary

**Strategic Missile ........ SM-62 A**

![Image of a missile]

**Ref Wing Area (does not include leading edge or trailing edge extensions)**: 326.0 sq ft

**Length**: 69.9 ft

**Span**: 42.3 ft

**Height**: 14.8 ft

## Availability

<table>
<thead>
<tr>
<th>Inventory</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>TEST 3</td>
<td>26</td>
</tr>
<tr>
<td></td>
<td>29</td>
</tr>
<tr>
<td>FY 61</td>
<td>6</td>
</tr>
</tbody>
</table>

## Procurement

- Number available: 29
- Number to be delivered in fiscal years: 6

## Status

1. **Design Initiated (Guidance System)**: Mar 46
2. **First Flight XSM-62**: Aug 53
3. **Completion of Cat. I tests**: Sep 58
4. **First prod. delivery to SAC**: Jun 59
5. **In prod. - operational**: Mar 60

Mfr's Model: N-72

## Power Plant

- **(1) J47-P-17**
- **Pratt & Whitney**
- **ENGINE RATINGS**
  - SLS: 10,500
  - LB: 9000
  - RPM: 6150
  - MIN: 9000/9650 Cont

**BOOSTER**

- **thrust**: 130,000 lb
- **Duration**: 4 sec

## Features

- **Wing**: Low thickness ratio, high aspect ratio, and high degree of sweepback. Lateral and longitudinal control maintained by elevons on trailing edge.
- **Fuselage**: Houses warhead, fuel, power plant, and guidance equipment.
- **External Fuel Tanks**: Carried on pylons mounted beneath the wings and dropped when empty.
- **Warhead**: Delivered through release of missile ballistic nose section.
- **Maximum Fuel Capacity**: 3768 gal

**Guidance**

- **Model**: Mark I*
- **Mfr**: Northrop Corp.
- **Type**: Inertial, aided by stellar monitoring and airmass damping

*Includes N-80 Autopilot

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SECRET

57 WC 4983
Characteristics Summary Basic Mission

Performance

Launching
Mobile short rail platform
Preparation and launch time:
Twenty percent of the missile stockpile will be launched by D - 1 hour. The balance of the in-commission missiles will be launched by D + 3.5 hours. However during periods of exigency, twenty percent can be launched in E + 15 minutes, an additional twenty percent in E + 30 minutes, and the balance within E + 3 hours. To meet this requirement, all missiles will be assembled, launcher-mounted, fueled, and will have warheads and boosters installed.

Range
4,900 lb/5,322 lbs (c) naut mi.
with 6230 lb warhead
at 531 feet - knots avg
Crusing speed
in 9.3 hours

Climb
3,082 fpm at sea level
49,603 lb (launch weight)
Military power

Altitude
1490 fpm at 44,650 feet
26,400 lb (weight at beginning of high altitude target approach) military power

Operational
Weighs
Loading Lb
Empty (not including warhead)... 16,903
Launch with Pylon Tanks (without boosters) ... 49,603
Launch with Pylon Tanks (with boosters) ... 60,968

Fuel
Location No. Tanks Gal*
Fuselage ... 8 ... 3038
Ballistic Nose ... 1 ... 137
Pylon Tanks ... 2 ... 593
Total 3768
Grade ... 5
Specification ... MIL-F-5624C
Usable fuel

Notes
1. Performance Basis:
   (a) Data Source: Flight Test
   (b) ICAO Standard Atmosphere and zero wind.
   (c) Range is the mean value of the operational range.
   (d) Target Accuracy: 50% within 2.0 nautical miles.
2. Revision Basis:
   To reflect latest status information.
3. True Mach number corresponding to 0.91 command Mach number is 0.924.