



AEROFINA

TECHNICAL SHEET CARTRIDGES AND ROCKET MOTOR PROPELLANT FOR KM – 1M EJECTION SEAT

Type:

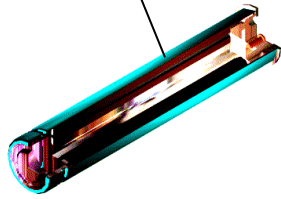
PKM

Code:

PKM-0



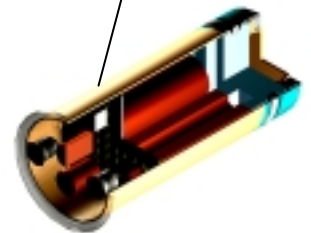
PKM 1 Ejection cartridge



PKM 2 Ignition cartridge



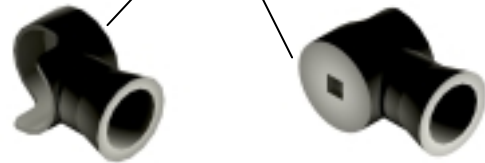
PKM 3 Multiple cartridge



PKM 4M Propellant double – base
for rocket motor



PKM 4A Rocket motor nozzle



1. DESTINATION AND UTILIZATION

1.1. Destination:

Cartridges and rocket motor propellant with suitable nozzle are designed to equip KM – 1M ejection seat.

1.2. Utilization

This products is to be used on KM-1M ejection seat equipping MIG-21M, MIG-21MF, MIG-21UM, MIG 21 DD LANCER and MIG-23 fighters.

2. GENERAL TECHNICAL DATE

2.1. Components

The products consists of:

- PKM 1 Ejection cartridge – equivalent PK-16M
- PKM 2 Ignition cartridge – equivalent PV-50
- PKM 3 Multiple cartridge – equivalent PK-3M-1
- PKM 4M Propellant double – base for rocket motor – equivalent IDSI
- PKM 4A Rocket motor nozzle.



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PROPELLANT FOR KM – 1M
EJECTION SEAT

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2.2. Characteristics

Dimensions:

PKM 1 Ejection cartridge: $\Phi 38 \times 210$

PKM 2 Ignition cartridge: $\Phi 28 \times 110$

PKM 3 Multiple cartridge: $\Phi 28 \times 65$

PKM 4M Propellant double – base: $\Phi 24 \times \Phi 14 - 408$

PKM 4A Rocket motor nozzle: $\Phi 50 \times \Phi 56 - 52$

Weight:

PKM 1 Ejection cartridge: $0,475\text{kg} \pm 5\%$

PKM 2 Ignition cartridge: $0,146\text{kg} \pm 5\%$

PKM 3 Multiple cartridge: $0,114\text{kg} \pm 5\%$

PKM 4M Propellant double – base (11 bars): $2,1\text{kg} \pm 5\%$

PKM 4A Rocket motor nozzle (2 pcs.): $0,640\text{kg} \pm 10\%$.

3. SPECIAL CONDITIONS FOR MOUNTING AND OPERATION

Cartridges are to be mounted in corresponding location of operational mechanisms within KM – 1M ejection seat.

4. STORING CONDITIONS

Products will be stored in its original package – sealed up – in similar conditions as for infantry ammunitions, in compliance with STPM - 40 003 – 95:

- air temperature: $-35^{\circ}\text{C} \div +55^{\circ}\text{C}$;
- relative humidity: $44\% \pm 5\%$.

5. TESTING & QUALIFICATION

All testing are perform accomplished to full MIL-STD-810F requirements.

6. RECOMMENDED LIFE

For climate where shade temperature is not likely to exceed 40°C . :

Total life: - 10 years.

Installed life: - 5 years for cartridges (from filling date);

- 4 years for propellant rocket motor (from date of manufacture).

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