

Technical specification

Parachute brake systems PBS-25

Parachute brake systems PBS-25- designed for shortening landing ground roll of Su-25 aircrafts at landing or interrupted take-off Su-25 after landing.

Requirements for the composition of the Parachute brake systems PBS-25

The composition of 1 set of PBS-25 includes:

- parachute 13 m² - 2 pcs.
- vent parachute 1 m² - 1 pc.
- vent parachute 0.05 m² - 1 pc.
- vent rope - 1 pc.
- case - 2 pcs.
- case - 1 pc.
- chamber - 1 pc.
- element - 1 pc.
- bind strop - 1 pc.
- bind strop - 2 pcs.
- ring - 2 pcs.

Repair materials (per 5 system):

- Tape LTKMP-25-1000, length 5 m.
- Tape LTKP-26-600, length 5 m.
- Capron threads 9KrP, weight 0,01 kg.

Requirements for staffing tools and accessories:

- stow bar - 1 pc.
- ramrod 1 unit.
- cord SHTKP-12-450 length 2 m. - 1 unit.
- cord SHKP-120 length 2 m. - 60 units.
- cord SHKP-120 length 0.47 m. - 60 units.
- installation cord SHKP-200 length 5 m. - 1 unit.
- locking.
- cotton yarn 15,4 tex x 6 x 3 PP length 0.15 m - 60 units.
- needle 1-11 - 1 unit.

Set of packing:

- carrying bag - 1 unit.

Requirements for spare parts (per 5 system):

- vent parachute 0.05 m² - 1 pc.
- vent rope - 1pc.
- case - 2 pc.
- case - 1 pc.

- bind strop – 1 pcs.
- bind strop - 2 pcs.
- ring - 20 pcs.

Basic technical requirements:

- to ensure reliable operation at landing speeds of 180 to 230 km/h;
- the length of the landing ground roll must be 630 m while activating the system at speed of 200 km/h if landing weight of the aircraft is 8800 kg;
- max. operational load occurring during the filling of parachutes (2x13m²):
at landing speed 200 km/h – not more than 3780 kgs;
at landing speed 230 km/h – not more than 5030 kgs;
- parachute system PBS-25 is operational in service of the Su-25;
- parachute system can be stored at relative humidity of 30-80% and temperature range from -30 °C to + 30 °C;
- parachute system PBS-25 is transported by any mode of transport at any distance, without limitation, speed and altitude;
- packed parachute system PBS-25 is convenient to carry and deliver to the Su-25;
- joining PBS-25 to the Su-25 is carried out by regular assembly of the Su-25;
- parachute system PBS-25 is activated when open the flap of the parachute container.
- parachute system PBS-25 weight is 17 kg;
- volume of parachute system in packed condition is 35 dm³;
- packing of the parachute system PBS-25 - not more than 10 min.

Service life and guarantees:

- specified lifetime of the parachute system PBS-25 – not less 12 years (including storage and transportation);
- assigned resource – not less 60 applications;
- warranty period in accordance with passport data of the manufacturer, but not less than 12 months.

Requirements for the supply:

Parachute brake system PBS -10CK complies with category 1 and supplied with operational documentation:

- passport - 1 unit per 1 set;
- blank passport - 1 unit per 10 sets;
- instruction manual - 1 copy per 10 sets.
- Parachute brake system PBS-25 is delivered in manufacturer's package, quality of the parachute system meets technical requirements.

Year of manufacturing: 2016.