PC(I) No. 2011-ME At 30-11-74

IND/ME/761(b)

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686 N 4020-00 481 343 N - 4020-00 46 RAYON 1-4020-Ad 48

D. I. (Arm) No. A/85756/TC-71

Approved on 27-10-1967

SCOPE

This specification is meant to govern the supply and ! inspection of Cord, Rayon, suitable for re-inforcing PVC tube filled with explosives, and also for assembly of parachutes,

DESCRIPTION 2.

- The Cord, Rayon, shall be made from viscose rayon yarn Grade 1.
- It shall be clean and free from impubities of any 2.2 description.
- It shall be uniformly plied to the correct fold with well-spun, evenly twisted varn, of equal thickness throughout its length, and free from knots, short lengths, and other defects of a similar nature.
- Cord, Rayon, shall be of 686 N, 343 N, or 147 N breaking load as per the requirement of the purchaser.

TESTS

Cord, Rayon, shall conform to para 2 above and shall, in addition comply with the following test schedule.

schedule-1 125+ LIMITS/ REQUIRE MENTS. Tes For Cord 12 myon for cord RAYM Cord For bouncing low breaking low LOW breaking N 6216 N A piles construction (sec stand each

TEST' SCHEDULE

LIMITS/REQUIREMENTS	Method
Test 'For Cord Rayon' For Cord Rayon' For CORD Rayon breaking load boreking load breaking load 686 N 1 343 N 1 147 N	of testing
Construction 5 plies of 4 4 plies of 2 4 plies of 1 strands each of Rayon Yarn of 1650 Denier or 12 plies of 4 strands each of Rayon, Yarn, of 700 Denier only	· · · · · · · · · · · · · · · · · · ·
Mass per metre 1)Min 3.8 g 1.8 g 0.5 g Max 4.5 g 2.2 g 1.0 g 2)Min 3.5 g Max 4.5 g	-
Average Breaking Min 686 N 343 N 147 N load	Appendix
Average Stretch	
1) at 686 N load Max 15% -	-do-
2) at 343 N load Max - 20% -	-do-
3) at 147 N load. Max - 20%	-do-

4 PACKING AND MARKING OF PACKAGES

- 4.1 Cord, Rayon, shall be in cheeses of one kilogram each or as agreed to between the purchaser and supplier. Each cheese shall constitute a continuous length of the cord without any loose ends or splices. Each cheese shall be wrapped in polythene or other approved wrapper.
- 4.2 The wrapper of each cheese shall bear the following marking,

Designation of the store, Batch No. Lot No. Manufacturer's name or recognised trade mark, Supply Order/Contract No., Mass

5 INSPECTION

- 5.1 Each batch/lot is subject to inspection by, and the final approval; of the Inspecting Officer named in the supply Order/contract.
- 5.2 If samples drawn from a batch/lot offered for inspection full to conform to para 3 and 4.1 of this specification, the whole batch/lot is liable for rejection.
- 5.3 The foregoing provisions apply to each contractor or sub-contractor(s).

Sd/- X X Y (R'UNAQ RAM) DSS C.I.M.E./For D.I.(Arms).

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APPENDIX 'A'

Method of the determination of the breaking load and stretch

- A.1 The testing machine will be of the pendulum lever type situated in a room whose atmosphere can be conditioned.
- A.2 Keep the test specimens, not less than 5 specimens, each 60 cm long, in the conditioning room inside which an atmosphere at 27°C ± 2 deg C and 65% ± 2% R.H. is maintained. The period of conditioning shall be not less than 24 continuous hours.
- A.3 Keep the initial unstretched length at between 46 cm and 60 cm between the grips of the machine. Apply the load gradually at a traverse rate of 30 cm/min until the load of 343 N (or 686 M, as appropriate) has been applied.
- A.4 Measure the stretched length and c lculate the stretch as under:-

% stretch = <u>increase in length</u> x 100 initial unstretched length

- A.5 Record the average of 5 tests.
- A.6 In case the breaking load is less than 343 N (686 N as the case may be), record the average breaking load and calculate the average stretch as in para A.4 and A.5 Report the average stretch % at the particular average breaking load obtained.
- 4.7 If the breaking loads are more than 343 N(or 686 N as the case may be), calculate the average stretch as in para 4.3, A.4 and A.5 Record also the average breaking load.