

TRANSNET NATIONAL PORTS AUTHORITY

SPECIFICATION FOR STEEL WIRE ROPES

TNPA-INFRA-ENG-SPEC-EEAM-Q-003

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Note: Only the latest amendments and/or additions are reflected in italics in the body of the document.

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1. STEEL WIRE ROPES

- 1.1 This specification covers Transnet requirements for protective coating of iron and steel structures, electrical motors, gear boxes etc. against corrosion and must be read in conjunction with the main specification as well as the following (latest editions): -
- 1.2 The steel wire ropes shall conform to a recognised international specification.
- 1.3 The ratio of the diameter of the rope to the diameter of the rope drums and sheaves, over which the rope passes shall be as laid down in Clause 4.2.3 of FEM
- 1.4 Ropes used in cranes shall also comply with BS EN 12385-1 (Latest)
- 1.5 All steel wire ropes used must be freely obtainable from local suppliers.
- 1.6 The ropes shall be tested and a test certificate issued by an approved organisation must be supplied with the ropes.
- 1.7 Tenderers must supply the following information for all the wire ropes offered: -
 - 1.7.1 Construction
 - 1.7.2 Type of lay
 - 1.7.3 Finish
 - 1.7.4 Type of core
 - 1.7.5 Tensile grade of steel wire
 - 1.7.6 Nominal diameter (mm)
 - 1.7.7 Minimum breaking force (kN)
 - 1.7.8 Estimated mass/metre (kg/m)
 - 1.7.9 International specification to which steel wire ropes have been manufactured
 - 1.7.10 Expected life of rope
 - 1.7.11 Recommended fabrication of rope
- 1.8 Detailed reeving instructions must be included in the maintenance manuals (ref. EEAM-Q-016)
- 1.9 The length of each piece of rope as fitted in the equipment must be listed in the maintenance manuals (reference EEAM-Q-016)