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CHEMICAL INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

HG/T 2490-2011

Replacing HG/T 2490-1993

Rubber hoses and hose assemblies, wire or textile reinforced, for dredging applications - Specification

疏浚工程用钢丝或织物增强的橡胶软管和软管组合件 规范

(English Translation)

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1 Scope

This standard specifies the classification, material and structure, size and tolerance, technical requirements, test rules, marking and other requirements of 2 types, 8 classes and 3 grades of wire or textile reinforced pipeline rubber hoses and marine rubber hoses for dredging projects with nominal sizes ranging from 100 mm to 1,300 mm. Within each class, all grades and specifications have the same maximum working pressure.

This standard is applicable to rubber hoses that discharge or suck seawater, fresh water, silt, sand, coral and small stones with specific gravity in the range from 1.0 to 2.3 at ambient temperatures ranging from -20 °C ~ + 40 °C.

2 Normative references

The following referenced documents are indispensable for the application of this standard. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

GB/T 528 Rubber, vulcanized or thermoplastic - Determination of tensile stress-strain properties

GB/T 529 Rubber vulcanized or thermoplastic - Determination of tear strength (Trouser, angle and crescent test pieces)

GB/T 531.1 Rubber, vulcanized or thermoplastic - Determination of indentation hardness - Part 1: Durometer method (Shore hardness)

GB/T 1681 Rubber - Determination of rebound resilience of vulcanizates

GB/T 2941 Rubber - Standard temperatures, humidities and times for the conditioning environmental and testing of test pieces

GB/T 3274 Hot-rolled plates and strips and strips of carbon structural steels and high strength low alloy structural steels

GB/T 5563 Rubber and plastics hoses and hose assemblies - Hydrostatic testing

GB/T 5567 Rubber and plastics hoses and hose assemblies - Determination of suction resistance (idt ISO 7233:1991)

GB/T 6669 Flexible cellular polymeric materials - Determination of compression set

GB/T 7528 Rubber and plastics hoses and hose assemblies - Vocabulary

GB/T 7762 Rubber, vulcanized or thermoplastic - Resistance to ozone cracking - Static strain test

GB/T 9573 Rubber and plastics hose and hose assemblies - Methods of measurement of dimensions

GB/T 9576 Rubber and plastics hoses and hose assemblies - Guidelines for selection, storage, use and maintenance

GB/T 9577 Rubber and plastics hose and hose assemblies - Rules for marking, package and transportation

GB/T 9867 Rubber, vulcanized or thermoplastic - Determination of abrasion resistance using a rotating cylindrical drum device (idt ISO 4649: 2002)

GB/T 10541 Rubber hose, oil suction and discharge, offshore mooring

GB/T 11211 Rubber, vulcanized or thermoplastic - Determination of adhesion to metal - Two-plate method

GB/T 14905 Rubber and plastics hoses - Determination of adhesion between components

CCS Rules for materials and welding

3 Terms and definitions

For the purpose of this standard, the terms and definitions given in GB/T 7528 apply.