PTK Pretreatment Test Kit

SP7315 BASIC KIT✸
SP7316 FULL KIT✸

Datasheet

Product description

A special designed test kit to control all relevant parameters during the pre-treatment of steel prior to painting available as BASIC KIT✸ and FULL KIT✸

The BASIC KIT✸ contains a Bresle Test for surface and blast media measurements, a Dust Test kit and Telescopic inspection mirror. The FULL KIT✸ has a large number of extra items a described in this datasheet. It is also possible to make a selection out of the optional items.

The quality of correct pretreatment of a surface prior to application of the coating is essential to ensure the quality of the coating and that its optimum lifetime is achieved.

Improper surface preparation may lead to insufficient adhesion, corrosion under the coating and premature failing of the coating system. The TQC PTK (Pretreatment Test Kit) is a standard kit that can be expanded to meet the needs of the coatings inspector. The kit exists of a sturdy, double walled plastic carry case for easy storage and portability.



Standards

ISO8502-6 and 9, IMO MSC.215(82), IMO MSC.244(83)

Standard Supply / Kit

TQC SP7310 **TQC Bresle test,** ✸
Kit complete with conductivity meter and 25 Bresle Patches and necessary accessories. This test is ideal for determining the salt levels on the surface prior to painting according the accurate and ergonomic DSP-method (Direct Sampling Procedure). Extra accessories are included to determine the level of contamination of the used blast media.

Standards: ISO8502-6 and 9

Excessive salt levels trapped under a layer of coating will attract moisture due to their hygroscopic nature which lead to corrosion and paint system failure. Recycled blasting media may become contaminated with soluble salts. Contaminated blasting media will transfer soluble salts to the surface to be cleaned.

TQC SP3200 **Dust Test Kit,** ✸
Binder complete with dust comparator display board, dust assessment plate, illuminated magnifier adhesive tape, scissors and a set of test record sheets.

Standards: ISO8502-3, IMO MSC.215(82), IMO MSC.244(83)

Dust on blast cleaned surfaces can reduce coating adhesion, leading to premature coating failure and sub-standard coating finish.

TQC LD3025 **Paint Inspectors Mirror,** ✸
A simple and robust tool for visual inspection of hard to reach places for example behind stiffeners or “mouse holes”. Hard to see spots are difficult to reach to the blaster / painter as well. Inspection (visually) of these places is essential.

Optional items for the SP7315

(All fit in the case protected by a pre-cut foam lining)

TQC DC7000 DewCheck, ✸

The world's first dewmeter dedicated to protective coatings work. Dewcheck incorporates all the features required for climate condition monitoring in a single gauge including relative humidity, air temperature, dew point, surface temperate and delta T, complete with memory.

Standards: ISO 8502-4, BS 7079-B4, US Navy NSI 009-32, US Navy PPI 63101-000, IMO MSC.215(82), IMO MSC.244(83)

Incorrect climate parameter may lead to condensation on the surface resulting in undercoat corrosion and poor adhesion. High or low temperature and/or humidity will affect the curing process and inter-coat adhesion and performance of the coating system.

TQC SP1560 Profile gauge, ✸

An easy to use gauge that measures the peak-to-valley height of blast cleaned surfaces providing an indication of the surface roughness / anchor pattern. Clear digital display for easy interpretation. The needle shaped tip of the instrument can be exchanged for the ball shaped tip that comes with the instrument converting the instrument into a coating thickness gauge

Standards: ASTM D4417 – B, ISO 2808-3, ASTM D4138

A surface profile that meets the specified parameters is essential. The surface profile increases the total surface creating a larger are of the coating to adhere. If the profile / anchor pattern is too low, the adhesion between the coating and the surface will be reduced. If peaks are too high they may not be covered by the first layer of primer creating possible weak spots in the coating system.

TQC SP3600 Spring Loaded Roller, ✸

The Spring Loaded Roller is used to perform objective dust tape tests, as mentioned in ISO 8502-3, and eliminates the human factor. The roller guarantees reproducible pressure on the tape used with the SP3200 Dust Test Kit.

Standards: ISO 8502-3, , IMO MSC.215(82), IMO MSC.244(83)

TQC LD3020 ISO8501-1:2007 The Rust Grade Book, ✸

Pictorial standard book with rust grades and preparation grades of uncoated steel substrates and of steel substrates after overall removal of previous coatings. Also called "Swedish Blast Degrees" or "Sa-standards). The original visual standard. It shows the degree
of cleanliness of four different levels of rusted steel cleaned by grit blasting, hand/power tool- and flame cleaning.

Standards: ISO8501-1:2007

Cleanliness is often confused with roughness. Apart from a sufficient profile it is critical that all contaminations such as old layers of paint, rust, mill scale, shop primers etc. are sufficiently removed resulting in the desired cleanliness grade such as Sa 2½ (near white metal).

TQC LD2040 Surface Roughness Comparator, ✸
Comparison standard according to ISO 8503 part 1 made of quality steel. Indicates the surface condition of blasted steel according to ISO 8503 in grades of fine, medium, and coarse. Model G for grit blasting.

Standards: ISO 8503 part 1and 2, ASTM D 4417 Method A, IMO MSC.215(82), IMO MSC.244(83)

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TQC LD7215 UV-Inspection Flashlight, ✸

Compact UV-Inspection flashlight mainly for field-use of visual inspection of (blast)cleaned surface for the presence of certain organic greases or other contaminations. Also suitable for porosity tests in combination with luminescent primers during tank coating jobs.

Standards: ASTM E2501

Contamination of the blasted surface, especially with fat or grease will make it impossible for the coating to adhere. Grease and fat cannot be removed by blasting, only by solvent wiping and are therefore a potential hazard. Pores in the coating will lead to small (growing) spots of corrosion, especially in immersed applications.

TQC SP3000 Coating Multitester ✸

Multi-functional stainless steel measuring tool. Can be used for : a 1-(1,5)-2-3mm cross cut adhesion test and (X-cut) Andreas cross, measuring wet film thickness from 50 up to 160 microns, edge grind check for correct of edges roundness, etc.

Standards: NEN-EN-ISO 2409 :2003 and ASTM D3359, IMO MSC.215(82), IMO MSC.244(83)

Especially the edge grind check is important during the pre-treatment inspection. Too sharp edges will lead to low film thickness on the edge due to surface tension of the coating. Adhesion of old paint layers is important when new coatings are applied over existing paint.

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