



# MARINE TESTING SOLUTIONS

## Marine Boiler & Cooling Water Test Options

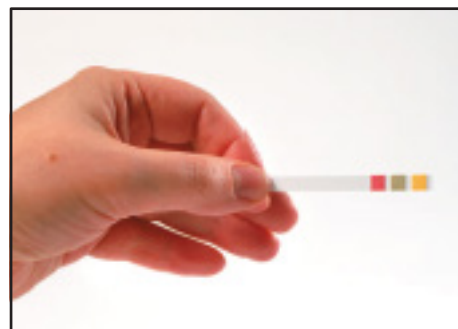
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## SHIPS SAFE® Marine Boiler and Cooling Water Test Options

The MTS range of SHIPS SAFE® marine boiler and cooling water test kits are designed to monitor water treatment chemicals added to diesel engine cooling systems and low, medium or high pressure boilers. The SHIPS SAFE® range of reagents supplied are non-hazardous for shipping and the products have been specially selected and combined into a range of specific, fully portable test kits for easy convenient testing on-site. Upgrades are available depending upon treatments used.



### SHIPS SAFE® Marine Boiler and Cooling Water Test Kits

Engine cooling systems contain carefully blended additives that prevent scale deposits and corrosion of engine waterways. It is very important that the concentration is maintained at the correct level for optimum protection.

Low, medium and high pressure steam boilers are also treated with special corrosion and scale inhibitors. It is vitally important to maintain precise levels of these additives to ensure correct and efficient steam generation. Failure to regularly maintain and monitor treatments will inevitably end in system failure and expensive corrective maintenance.

MTS supply treatment test kits for engine cooling water and steam boiler water. The kits are very simple to operate and will enable the ships engineer to monitor scale and corrosion concentrations. Regular testing will allow rapid corrective action to take place helping you to maintain optimum operating conditions, minimise downtime and reducing energy costs.



#### **MTS-K100171 Marine Boiler Water Kit**

##### **Contents:**

Plastic Case & Foam	1
Alkalinity (P) 0 - 2400 ppm (100)	1
Chloride 20 - 12000 ppm (100)	1
pH Test Strips 7 - 14 (100)	1
Instruction Manual	1

#### **MTS-K100172 Marine Cooling Water Kit**

##### **Contents:**

Plastic Case & Foam	1
Chloride 20 - 12000 ppm (100)	1
Nitrite 10 - 2000 ppm (100)	1
pH Test Strips 4 - 10 (100)	1
Instruction Manual	1

#### **MTS-K100173 Marine Boiler & Cooling Water Kit**

##### **Contents:**

Plastic Case & Foam	1
Alkalinity (P) 0 - 2400 ppm (100)	1
Chloride 20 - 12000 ppm (100)	1
Nitrite 10 - 2000 ppm (100)	1
pH Test Strips 4 - 10 (100)	1
pH Test Strips 7 - 14 (100)	1
Instruction Manual	1

##### **Optional Upgrades:**

MTS-B100042 7021 CON/TDS Stick Meter  
MTS-B100178 DEHA 0 - 0.5 ppm  
MTS-B100037 Glycol Refractrometer  
MTS-B100183 Hydrazine 0 - 5 ppm  
MTS-B100174 Phosphate 0 - 100 ppm  
MTS-B100180 Sulphate 0 - 200 ppm  
MTS-B100352 Sulphite 20 - 150 ppm  
MTS-B100181 Tannin 0 - 200 ppm  
MTS-B100030 Suspended Solids 5 - 500 ppm

## Spectrapak® Tablet Count Boiler and Cooling Water Test Kit Options

Tablet count methods have been historically used in the marine industry. The tablet count process forces the sample water to change colour based on the number of tablets added. The value can then be determined on a conversion table based on the number of tablets it takes for the colour to change.

Tablet count methods are classed as hazardous for shipping and less accurate than the recently developed drop test methods. For non-hazardous options please refer to the SHIPSAFE® range of boiler and cooling water test kits.



### **MTS-K100437 309 Cooling Water Kit Contents:**

Plastic Case & Foam	1
Chloride Tablets (250)	1
Nitrite No 1 Tablets (100)	1
Nitrite No 2 Tablets (250)	2
pH Test Strips 4 - 10 (100)	1
Instruction Manual	1

### **MTS-K100606 310 Boiler Water Kit Contents:**

Plastic Case & Foam	1
Alkalinity (P) Tablets (250)	2
Chloride Tablets (250)	2
pH Test Strips 7 - 14 (100)	1
Instruction Manual	1

### **MTS-K102114 311 Boiler Water Test Kit Contents:**

Plastic Case & Foam	1
Alkalinity (M) Tablets (250)	1
Alkalinity (P) Tablets (250)	1
Chloride Tablets (250)	1
Phosphate Tablets (100)	1
Comparator Unit	1
Comparator Unit 10ml Cell	2
Phosphate Comparator Disc 0-8ppm	1
pH Test Strips 7 - 14 (100)	1
Instruction Manual	1

### **MTS-K100960 312 Hydrazine Kit Contents:**

Plastic Case & Foam	1
Hydrazine Test Powder (40g)	1
Comparator Unit	1
Comparator Unit 10ml Cell	2
Hydrazine Comparator Disc 0 - 5 ppm	1
Instruction Manual	1

### **MTS-K100749 313 DEHA Kit Contents:**

Plastic Case & Foam	1
DEHA Test Solution 1 (65ml)	1
DEHA Test Solution 2 (30ml)	1
Comparator Unit	1
Comparator Unit 10ml Cell	2
DEHA Comparator Disc 0 - 0.5 ppm	1
Instruction Manual	1

### **MTS-K101638 315 Low Pressure Boiler Water Test Kit Contents:**

Plastic Case & Foam	1
Alkalinity (P) Tablets (250)	2
Chloride Tablets (250)	1
pH Reagent (80g)	1
pH Test Strips 4 - 10 (100)	1
pH Test Strips 7 - 14 (100)	1
Instruction Manual	1

## Chloride Test Kit for Cooling Water Treated with Glysacorr® G94-94

Glysacorr® G93-94 is an inhibitor concentrate which is added to the cooling water in trucks, locomotives, on ships, or other combustion engines. At a concentration of 10% by volume, Glysacorr® G93-94 affords excellent protection against cavitation and corrosion to all engine metal and alloys, providing that chloride levels in the cooling system remain below 100ppm (mg/l).

The coolant mixture should be prepared with tap, demineralised or deionised water. If tap water is used then it is essential that chloride and hardness levels are below the recommended maximum concentrations; 100ppm (mg/l) and 360ppm (mg/l) respectively. Regular monitoring of chloride is essential to ensure no sea water contamination occurs during operation.

The MTS Glysacorr® chloride test is specially designed to determine chloride levels in 10% working inhibitor solution, ensuring optimum conditions for corrosion protection. A hardness test is also available to ensure dilution water used stays within specification.

### **MTS-K100761 Glysacorr® Test Kit**

#### **Contents:**

Plastic Case & Foam	1
Chloride Reagent A (30ml)	2
Chloride Reagent B (65ml)	1
GF/C Filter Papers (50)	1
Filter Holder	1
Comparator Unit	1
Comparator Unit 10ml Cell	2
Glysacorr® Comparator Disc 0 - 100ppm	1
10ml Syringe	1
2ml Syringe	1
<b>Instruction Manual</b>	<b>1</b>

### **MTS-K100366 Total Hardness LR & HR Drop Test**

#### **Kit 0 - 1200ppm**

#### **Contents:**

Plastic Case & Foam	1
Titration Jar 60ml	1
20ml Syringe	1
10ml Tube with Cap	1
TH2 Total Hardness Buffer (65ml)	1
TH3 Total Hardness LR Titrant (65ml)	1
TH4 Total Hardness HR Titrant (65ml)	1
TH5 Total Hardness Indicator (65ml)	1
Instruction Manual	1

### **MTS-P100762 Glysacorr® Replacement Reagent Pack**

#### **Contents:**

Chloride Reagent A (30ml)	2
Chloride Reagent B (65ml)	1
GF/C Filter Papers (50)	1
Comparator Unit 10ml Cell	2
10ml Syringe	1
2ml Syringe	1

### **MTS-P100962 Total Hardness LR & HR Replacement Reagent Pack**

#### **Contents:**

TH2 Total Hardness Buffer (65ml)	1
TH3 Total Hardness LR Titrant (65ml)	1
TH4 Total Hardness HR Titrant (65ml)	1
TH5 Total Hardness Indicator (65ml)	1

