

# WATER TREATMENT *Solutions*



## **FORMULA 301** **NCNP** **BOILER WATER TREATMENT**



- Prevents Scale and Sludge
- Minimizes Fuel Consumption
- Controls Corrosion
- Maximizes Equipment Life
- Easy-to-Use and Test
- No Mixing Required

**State**<sup>®</sup>  
Since 1911

CARE FOR WORK ENVIRONMENTS<sup>®</sup>

# FORMULA 301

# NCNP

## BOILER WATER TREATMENT

NCNP is a complete boiler water treatment in one drum for both conditioning of boiler water and the prevention of corrosion in condensate lines. NCNP combines a powerful scale and sludge control agent with oxygen scavenger and neutralizing amines. This unique combination provides corrosion control throughout the boiler system maximizing the life of your equipment and reducing costly maintenance. NCNP prevents energy-robbing scale and reduces boiler sludge allowing for efficient fuel usage minimizing your energy cost.

Best of all since NCNP contains all of the ingredients necessary in one drum there is no need to mix chemicals, making it simple and safer to use. A single State Chemical pump can be used to feed NCNP reducing the need for costly complex feed pumps.

NCNP is authorized by USDA for use in Federally inspected meat and poultry processing plants where the treated water or steam will not contact edible products.

NCNP uses an easy to test for product tracer that allows for quick and simple product level determination.

#### DIRECTIONS FOR USE:

##### Steam Boilers:

Use sufficient NCNP to achieve State product indicator test between 70 – 80 ppm, sulfite level of 30 – 60 ppm and condensate pH above 7.5. Product should be added to the feed water tank or condensate receiver directly from the shipping container. No product mixing or dilution is needed. If the above product tests are out of range on the lower end increase product usage.

Perform bottom blow down at specified periods to remove solids accumulations. System TDS levels are determined by the quality of the fresh make up water available. Generally, TDS levels should be maintained below 3000 ppm. Your State Chemical representative will review the

water conditions for the boiler system and recommend a TDS limit for your system.

NCNP can be added with a pump and controller similar to the State Chemical Boiler Controller. For systems with high condensate return and low fresh water make-up requirements, a pump and timer system such as the State Chemical DR-2000 can be used.

For best results it is recommended that the make up water to the boiler system be softened.

#### Closed hot and chill water systems:

NCNP can be used for closed water (non steam) system scale and corrosion control. NCNP should be added to the system to achieve a product indicator test of 70 – 80 ppm, pH should be maintained at 9.0 – 10.0. Blow down the closed system periodically to remove any accumulation of sludge.

Please review label and SDS for all product directions, precautions and first aid information.

#### TECHNICAL DATA:

Appearance	Opaque yellow - white liquid
Density	8.6 #/Gal. (1.03 Kilograms/Liter)
Flash point	Not combustible
pH (Concentrate)	13.2
Product Test Range	70-80 ppm
Sulfite Test Range	30 – 60 ppm
Condensate pH range	8.0 +/- 0.5

#### Steam Boiler Control

P-Alkalinity	300-500 ppm
Total Alkalinity	700 ppm max
Boiler Water TDS	3000 ppm max

#### PACKAGING

20876	55 GL Drum
20880	20 GL Drum
121296	5 GL Drum



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