BCP® 4000 SERIES All-In-One Drum Formulations

Would you like an All-in-One Drum Formulation that Controls Scale & Corrosion AND Keeps Cooling Water Systems Clean?

BCP 1030 (DTEA II®) can be formulated with scale and corrosion inhibitors. The resulting all-in-one drum formulations:

- Maintains clean surfaces
- Prevents corrosion
- Inhibits scale formation

When used with a biocide, these formulations provide a complete water treatment program with excellent biofilm control.

BCP® 4000 series formulations are examples of formulas containing BCP 1030 and traditional scale and corrosion inhibitors. These select formulas illustrate the ability to formulate with BCP 1030 to produce formulations that are designed for a variety of water chemistries. If desired, customers can work with their blending partners to produce these BCP® 4000 series formulas for their own use.

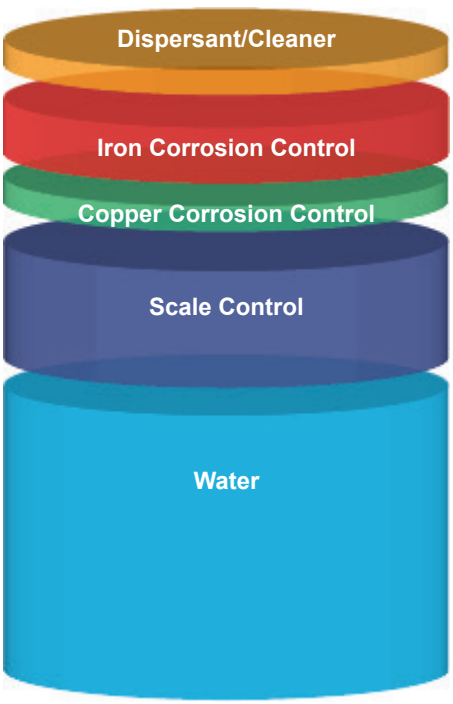
Of course, many other formulas are desired for specific water chemistries and applications. AMSA can assist customers to develop their own custom formulations that bring the organic deposit dispersion and cleaning power of AMSA BCP® chemistry.

The following graphic represents a generic formulation containing BCP 1030 and scale and corrosion inhibitors:

All-In-One Drum Generic Acidic Formulation

BCP 1030 (DTEA II®)	13%
Iron Corrosion Control Chemicals	10-20%
Copper Corrosion Control Chemicals (TTA)	2-3%
Scale Control Chemical	10-25%
Water	65-39%

Product Dose is 100 PPM



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BCP® 4000 SERIES

All-In-One Drum Formulations - Examples

These examples illustrate the ability to formulate BCP 1030 (DTEA II®) with traditional scale and corrosion inhibitors.

Key to successful formulation of BCP 1030 with typical scale and corrosion inhibitors is low pH (less than 2).

XRF 4132 (mild corrosion/severe scaling)

Component	Weight %
PBTC (50%)	10
Maleic acid copolymer (45-50%)	10
Tolyltriazole (99%)	3
BCP 1030	13
Aqueous HCl (3%)	36
Water	28

XRF 4122 (mild corrosion/moderate scaling)

Component	Weight %
HEDP (60%)	10
Polymaleic acid (50%)	10
Maleic acid copolymer (45-50%)	15
Tolyltriazole	3
BCP 1030	13
Aqueous HCl (3%)	36
Water	13

XRF 4142 (severe corrosion/moderate scaling)

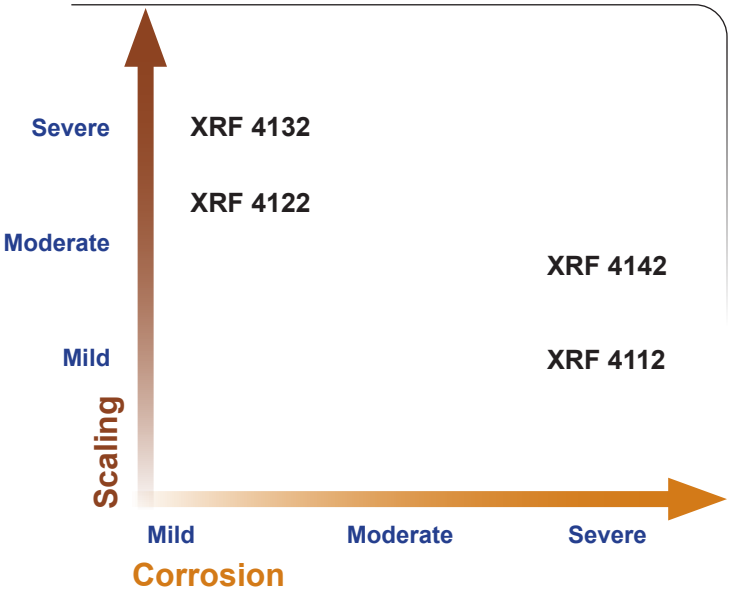
Component	Weight %
HEDP (60%)	12
Maleic acid copolymer (45-50%)	12
Zinc chloride (98%)	3
Tolyltriazole	2
BCP 1030	13
Aqueous HCl (3%)	18
Aqueous MSA (10%)	20
Water	20

XRF 4112 (severe corrosion/mild scaling)

Component	Weight %
Maleic acid copolymer	15
Acrylic acid copolymer	10
Zinc chloride	3
Tolyltriazole	2
BCP 1030	7
Aqueous HCl (3%)	36
Aqueous MSA (10%)	20
Water	7

These formulations are products lab tested for stability in their pre-market stage, hence the XRF designation.

AMSA formulations cover a range of water chemistries



Product Dose is 100 PPM

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