

MAGNAVU® ALKALINE CLEANER SPRAY FORMULA

GENERAL DESCRIPTION

MAGNAVU® is an alkaline cleaner formulated to meet major specifications, to have optimum performance at a minimum concentration, and to be "Environmentally Friendly."

MAGNAVU® Cleaner has been tested in both the pre-cleaning and post-cleaning phases of NDT. It was determined that if a part is thoroughly rinsed after cleaning, it will have no effect on the processing of the part. If a part is not rinsed prior to processing, it can affect the ability to find the defect and the brightness of the indications.

COMPOSITION

MAGNAVU[®] is comprised of alkaline builders, surfactants, a corrosion inhibitor, a pH adjuster, and a coupler. MAGNAVU[®] is available in both dip formula and spray formula for all application needs.

TYPICAL PROPERTIES (not a specification)

	Spray Formula		
Color	Light Amber		
Odor	Mild		
Ph	11.0		
Total Alkalinity	2.5%		
% Active	10.5%		

CONCENTRATION VERIFICATION

HACH Alkalinity Titration Kit*

Titrant	0.5N Sulfuric Acid	
Indicator	Bromcresol Green-Methyl Red	
Concentration %	Titrant drops × 1.40	

^{*} Ordering info: Alkalinity Test Kit, Model AL-TA; Product # 2314500; Mfr. Hach Company; Website www.hach.com



PRODUCT DATA SHEET

BATH PREPARATION & TANK LIFE

To keep foaming to a minimum when preparing a tank of MAGNAVU[®] cleaner, begin by first charging the tank with the required amount of water and then adding the required amount of MAGNAVU[®]. Foaming is kept to a minimum by adding in this order. Both MAGNAVU[®] dip and spray cleaners were formulated for minimum foaming when agitated or sprayed. However, cleaning equipment may vary and foaming may occur. In case of excessive foaming, Magnaflux[®] anti-foam agent ZAF-2 may be added to the bath at 0.1 - 0.5% concentration.

Effectiveness of the cleaner bath should be maintained by monitoring concentration and the amount of soils present. When oils start to float on the surface, the bath is saturated and oils can be skimmed off to extend the life of the bath. The concentration of the tank can be maintained by using a hand-held refractometer. A TDS (Total Dissolved Solids) meter is recommended for concentrations less than 5%. Concentration charts are provided (see pages 3 and 4). It is recommended that the bath be changed every three weeks during normal use and the concentration monitored daily. Spray bath may have to be changed more frequently if recycled.

PROCESS PARAMETERS

	Spray Application	
Concentration	1 - 5%	
Time	2 - 5 Minutes	
Mechanics	Expendable or Recycled. Spray Between 30-80 psi	
Heat	140° - 180°F	
Drying	Parts Should Be Dry Prior to NDT	

SPRAY APPLICATION

Soil	Concentration	Temp.	Time
Shop Dust	1 - 2%	140º - 160ºF	1 - 2 Minutes
Cutting Oils, Mineral Oil, Coolants	2 - 4%	160º - 180ºF	2 - 4 Minutes
Lub.Greases, Carbon Deposits (soot)	3 - 5%	160° - 180°F	3 - 5 Minutes

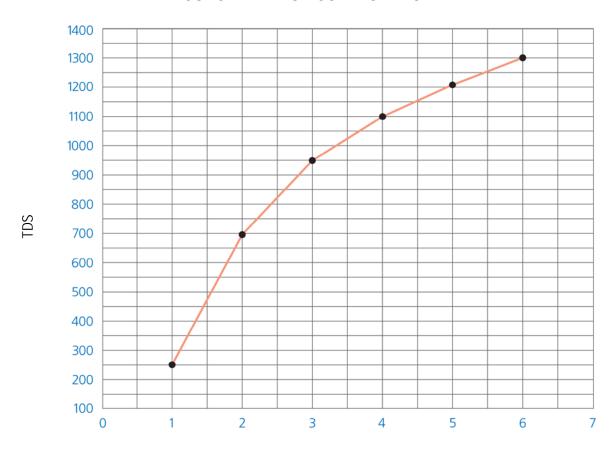


PRODUCT DATA SHEET

PACKAGING

MAGNAVU® Spray – 55 Gal. Drum.

MAGNAVU® SPRAY APPLICATION CONCENTRATION CONTROL TDS METER



CONCENTRATION

Skim or filter the tank before doing the following proceedure: 1) Run TDS on a sample of plain water used for diluting the spray cleaner. This will be the control. 2) Run TDS on a sample of the spray cleaner solution. 3) Subtract the control reading from the sample reading. This will be the number used to determine concentration. 4) Use the graph above to figure concentration.