


SSGC/LR/EPADS/3Q/2094646

# Demineralized Water Specification for Turbine Compressor Cleaning

Demineralized water (DM Water) used for turbine and compressor cleaning must meet specific quality parameters to avoid corrosion, scaling, or residue buildup on internal components. Below are the recommended specifications:

## 1. Physical and Chemical Properties

Parameter	Required Specification	Remarks
Appearance	Clear, colorless, odorless	No suspended particles or turbidity
pH (at 25°C)	6.0 – 7.5	Neutral to slightly acidic
Conductivity	$\leq 1.0 \mu\text{S/cm}$	Ideally $< 0.5 \mu\text{S/cm}$
Total Dissolved Solids (TDS)	$\leq 1 \text{ ppm (mg/L)}$	Very low solids to avoid fouling
Silica ( $\text{SiO}_2$ )	$< 0.1 \text{ ppm}$	Prevents deposit on hot turbine parts
Chloride ( $\text{Cl}^-$ )	$< 0.5 \text{ ppm}$	To avoid corrosion
Sulfate ( $\text{SO}_4^{2-}$ )	$< 0.5 \text{ ppm}$	Non-corrosive requirement
Sodium ( $\text{Na}^+$ )	$< 0.5 \text{ ppm}$	Prevents alkali deposit
Iron ( $\text{Fe}$ )	$< 0.1 \text{ ppm}$	To avoid rust stains and scaling

  
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