

## Acoustical Quantities

Parameter/Range	Frequency	CMC <sup>2</sup> (±)	Comments
Sound Level – Generate (94 to 114) dB	(125 to 1000) Hz	0.4 dB	GenRad 1986
Measure (84 to 114) dB	(50 to 2000) Hz	0.4 dB	Bruel & Kjaer 2610/ 4160
Vibration – Sensitivity Measurement & Frequency Response	(20 to < 100) Hz (0.1 to 1) kHz (> 1 to 10) kHz	1.8 % IV 1.3 % IV 2.8 % IV	Bouche Labs 1000AD/2133F shaker/accelerometer system

## Chemical Quantities

Parameter/Equipment	Range	CMC <sup>2,6</sup> (±)	Comments
Conductivity	(100 to 100 000) μS	0.3 %	Standard conductivity solutions
pH	(4, 7) pH units 10 pH units	1.2 pH units 1.3 pH units	Standard buffer solutions

## Optical Quantities

Parameter/Equipment	Range	CMC <sup>2,6</sup> (±)	Comments
Light	(2 to 500) fc	2.7 % IV	Optronic OL 220P
Step Tablets	(0.2 to 4) density unit	0.015 density unit	NIST SRM 38120C photographic step tablet
Densitometers	(0.2 to 4) density unit	0.015 density unit	

## Fluid Quantities

Parameter/Equipment	Range	CMC <sup>2</sup> (±)	Comments
Specific Gravity	(1.00 to 1.43) SPG	0.0011 SPG	Hydrometer set

## Hardness

Parameter/Equipment	Range	CMC <sup>2,6</sup> (±)	Comments
Indirect Verification of Rockwell Hardness <sup>3</sup>	HRBW: (30 to 59.9) HRBW (60 to 79.9) HRBW (80 to 100) HRBW  HRC: (20 to 34.9) HRC (35 to 59.9) HRC (60 to 70) HRC	1.2 HRBW 1.5 HRBW 1.3 HRBW  0.75 HRC 0.75 HRC 0.75 HRC	Hardness blocks
Verification of Durometer Spring –  Type A, A-2, B, 306L, 1600, O OO, D0, C, PTC 411&412	(10 to 100) Duro Units	$0.15D + 0.6R$	Weight scale