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Nota di contenuto	AIChE Equipment Testing Procedure: Mixing Equipment (Impeller Type); Contents; Figures; 100.0 Purpose and scope; 101.0 Purpose; 102.0 Scope; 103.0 Liability; 200.0 Definition and Description of Terms; 201.0 Introduction; 202.0 Mixing Equipment; 202.1 Equipment Configurations; 202.2 Impellers; 202.3 Vessels; 202.4 Auxiliary Equipment; 203.0 Basic Nomenclature; 203.1 Equipment Variables; 203.2 Mixing Related Dimensionless Groups; 203.3 Process Related Dimensionless Groups; 204.0 Operating Conditions; 205.0 Types of Tests; 205.1 Operating Performance; 205.2 Mechanical Conditions 205.3 Mechanical Operation 205.4 Mixer Support Structure; 205.5 Process Conditions; 206.0 Performance Criteria; 300.0 Test Planning; 301.0 Preliminary Considerations; 301.1 Safety; 301.2 Environmental; 301.3 Test Objectives; 301.4 Multiple Applications; 302.0 Plans for Operating Performance Tests; 302.1 Speed; 302.2 Power; 302.3 Torque; 303.0 Plans for Mechanical Condition Tests; 303.1 Equipment Verification; 303.2 Alignment; 303.3 Runout; 303.4 Gear Tooth Contact; 303.5 Seals; 303.6 Auxiliary Equipment; 303.7 Vibration;

303.8 Noise; 304.0 Plans for Mechanical Operation Tests
305.0 Plans for Process Condition Tests
305.1 Miscible Liquid Blending;
305.2 Heat Transfer; 305.3 Immiscible Liquid Dispersion; 305.4 Solids
Suspension in Liquid; 305.5 Gas-Liquid Dispersion; 305.6 Variable
Conditions; 305.7 Other Measurable Results; 306.0 Performance
Criteria; 400.0 Measurement Methods & Instruments; 401.0
Introduction; 402.0 Operating Performance Measurements; 402.1
Speed; 402.2 Power; 402.3 Torque; 403.0 Mechanical Condition
Measurements; 403.1 Alignment and Adjustment; 403.2 Runout; 403.3
Gear Tooth Contact Pattern; 403.4 Seals; 403.5 Auxiliary Equipment;
403.6 Vibration
403.7 Noise
403.8 Temperature; 404.0 Mechanical Operation
Measurements; 404.1 Natural Frequency; 404.2 Shaft strain; 404.3
Deflection; 404.4 Spectral Analysis; 405.0 Process Condition
Measurements; 405.1 Density or Specific Gravity; 405.2 Viscosity;
405.3 Physical State; 405.4 Chemical Composition; 405.5 Other
Physical/Chemical Properties; 406.0 System Operating Conditions;
406.1 Temperature; 406.2 Pressure; 406.3 Liquid Level, Volume, and
Flow; 406.4 Phase Ratios; 406.5 Blend Time; 406.6 Sampling; 500.0
Test Procedures; 501.0 General Test Procedures; 502.0 Preliminary
Operation and Safety
502.1 Instruction Manuals
502.2 Check for Debris in Vessel; 502.3
Check for Obstructions; 502.4 Pre-Operational Check; 502.5 Hand
Turning; 502.6 Jog; 502.7 Hydrostatic Pressure Tests; 502.8 System
Test in Air; 502.9 System Water Test; 503.0 Operating Performance
Tests; 503.1 Speed; 503.2 Power; 503.3 Torque; 504.0 Mechanical
Condition Tests; 504.1 Alignment and Adjustments; 504.2 Runout;
504.3 Gear Tooth Contact Patterns; 504.4 Seals; 504.5 Auxiliary
Equipment; 504.6 Vibration; 504.7 Noise; 504.8 Temperature; 505.0
Mechanical Operation Tests; 505.1 Natural Frequency
505.2 Deflections of Structure

Sommario/riassunto

The latest edition of this industry-friendly guide to evaluating the performance of mixing equipment brings this traditional process operation into the 21st century. The book starts with basic definitions and terms, and goes to detail test planning and procedures, and computation and evaluation of results. Appendices offer a troubleshooting checklists, sample log.
