

1. Record Nr.	UNISA996280735103316
Titolo	IEEE Std 1310-2012 (Revision of IEEE Std 1310-1996) : IEEE Recommended Practice for Thermal Cycle Testing of Form-Wound Stator Bars and Coils for Large Rotating Machines // IEEE
Pubbl/distr/stampa	New York : , : IEEE, , 2012
ISBN	0-7381-7270-7
Descrizione fisica	1 online resource (ix, 19 pages)
Disciplina	621.313
Soggetti	Electric generators - Testing Gas-turbines - Testing - Standards
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	This procedure is intended for form-wound bars/coils for rotating machines rated 10 kV or more at 50 Hz or 60 Hz that are subjected to many transitions from no-load to full-load current during normal operations, and where rapid load variations are typical. Only the thermal cyclic degradation within the groundwall insulation and/or the conductor package and delamination of the groundwall insulation from the conductor are addressed by this test. The procedure is applicable to indirectly-cooled machine types such as: combustion turbine generators; pumped storage or peaking duty hydrogenerators; synchronous condensers; cyclic duty water pump motors. Various pass/fail criteria are presented, and the ones that apply in a specific circumstance must be agreed between user and manufacturer prior to commencement of testing. Keywords: cyclic duty, delamination, groundwall degradation, IEEE 1310, indirectly cooled machines, peaking duty, stator winding, thermal cycling.