



FORM - 21B

DESIGN CRITERIA FORM FOR CARBON-CARBON AIRCRAFT BRAKE DISCS

In accordance with IMTAR-21, Subpart C3, 21. C3.1.9, 21.C3. 1.10

Reference

Applicant's Reference

Date:

Project : Material :
 Name of Inspection Agency : Manufacturing Process Route :
 Name of the Developing/Manufacturing Agency: Supply Condition :
 Nominal Dimensions :

Sl. No.	Component Name	Classification	Material Property Requirements	Service Conditions	Environmental and Temp Conditions	Requirements of Metallic Attachments, if any	Any other information
			Physical, Mechanical, Thermal, Friction and Wear				
		Critical/Non critical	e.g., Physical Properties: Density, Porosity, etc. Mechanical Properties: Flexural Strength, Tensile Strength, Compressive Strength, Shear Strength, Interlaminar Shear Strength, etc. Thermal Properties: Specific Heat, Thermal Diffusivity, Thermal Conductivity, CTE, Weight Loss by TGA (Bare + with Anti-Oxidant Coating), etc. Friction and Wear Properties on Brake Dynamometer Co-efficient of Friction, Wear (Thickness Loss), etc.	Kinetic Energy (Normal, Overload, RTO), Brake Application Speed, Brake Pressure, Stop Time, Static Torque, Temperature Rise, Wear (Thickness Loss) etc.			

Enclosures:

- Brief write-up about the Project
- End use of the Components along with justification for classification
- Drawings, photographs of components
- QA Plan

Signature
 Name & Designation
 Name of Organisation (with Seal)

Countersigned by CEMILAC

Version : 2.0

Date: August 2023