TABER® Rotary Platform Abraser
Abrading Wheels

Genuine Taber abrading wheels for the Taber Abraser are available in two general types, *Calibrase®* and *Calibrade®*. With standardized grades to meet varying requirements of abrasive action, numerous types of materials may be evaluated. Custom abrasives can also be developed, specific to your application.

Calibrase®

Composed of a resilient binder, and aluminum oxide or silicon carbide abrasive particles. During testing, the wheel surface wears away to expose new grain particles.

Calibrade®

Composed of a non-resilient, vitrified binder and aluminum oxide or silicon carbide abrasive particles.

Type	Part No.	Abrasive Action	Refacing Medium	Notes	Shelf Life
Calibrase	CS-8	Mild (resilient)	S-11 Disc	Do not exceed 500g load	2 year
Calibrase	CS-10F	Moderate (resilient)	ST-11 Stone	Do not exceed 500g load	2 year
Calibrase	CS-10	Medium (resilient)	S-11 Disc		4 years
Calibrase	CS-10P	Medium (resilient)	S-11 Disc	For testing paper	4 years
Calibrase	CS-10W	Medium (resilient)	S-11 Disc	No colorant added	4 years
Calibrase	CS-17	Harsh (resilient)	S-11 Disc		4 years
Calibrade	H-10	Medium (vitrified)	Wheel Refacer		No expiration
Calibrade	H-18	Harsh (vitrified)	Wheel Refacer		No expiration
Calibrade	H-22	Severe (vitrified)	Wheel Refacer		No expiration
Calibrade	H-38	Extreme (vitrified)	Wheel Refacer w/multipoint tool	Do not exceed 500g load	No expiration

NOTE: Shelf life is dependent on proper storage conditions: relative humidity = 50% ± 5%, temperature = 23°C ± 2°C. Use before expiration date.

➤ Calibrase wheels are often used for testing *rigid* specimens, and Calibrade wheels for testing *flexible* specimens.

➤ Under ordinary conditions, a wheel / load combination should run a minimum of 100 - 300 cycles on a material specimen before the end point occurs. Otherwise, the test may be too harsh.

➤ The minimum usable diameter of Taber abrading wheels is 44.4 mm (1.75"), which is the same diameter as the wheel label. Wheel life is dependent on load, frequency and method of refacing, and material being tested.

➤ During testing, wheel surfaces may "clog" or "crown" and require refacing.

➤ Increasing the load on the wheel typically increases the rate of wear.

Specialty Wheels

Part No.	Composition	Servicing Required	Notes	Shelf Life
CS-0 (S-32)	Non-Abrasive Rubber	Clean with isopropyl alcohol	▪ Sandpaper strips must be changed frequently to maintain the rate of wear	2 years
CS-5	Wool Felt	Lightly brush surface with S-12 brush	▪ Should not be used for a wet test ▪ Do not exceed 500g load	3 years
S-35	Tungsten Carbide	Clean with solvent and stiff brush	▪ Severe cutting or tearing action ▪ Use ONLY on resilient materials	No expiration
S-39	Leather Strip around brass hub	Replace if minimum diameter is less than 46 mm (1.8125")	▪ Use with Taber Grit Feeder Attachment ▪ Requires break-in period of 2000 cycles	3 years
S-24	Aluminum	Clean with isopropyl alcohol		No expiration

➤ The CS-0 rubber wheel is used in conjunction with abrasive sandpaper strips (S-33 or S-42). It can also be used by itself to test the abrasiveness of pastes.

➤ The CS-5 felt wheel is often used to evaluate the wear resistance of textile fabrics.

➤ The S-35 tungsten carbide wheel incorporates sharp helical teeth cut into the wheel periphery, and *should only* be used on resilient materials such as rubber or leather.

➤ The S-39 leather wheel is used with the Grit Feeder to evaluate three-body abrasion on specimens.