

Microscope Observation

Burn Test

#	Name	Fiber	Physical Description Under Microscope differences, similarities, unique characteristics	Ease of Ignition	Color of smoke	Odor/ smell	Color of Ash	Texture of Ash	End Use
42	Gabardine	55% Hemp, 45% Cotton	Twiggy, coarse, tangled, looks like a weed	Slowly burns	White	Burnt marshmallow, campfire	Black	Dusty	Suits, uniforms, other upholstery
3	Handkerchief Ramie	100 % Ramie	Long, stringy, rougher	Catches fire super fast, burns rapidly	White/gray	Marshmallow/ Campfire	Black	Slightly crumbly	Suits, skirts, other apparel, drapery
21	Challis	100% HWM Rayon	Spun tightly, dense, stringy	Easy catches, burns moderately fast	White	Fireworks	Black	Dusty/ashy	Sundresses, blouses, skirts
25	Chambray	100% Tencel Lyocell	Tangly, crimped, ravelly	Catches and burns consistently and smoothly	White	Marshmallow/ Campfire	Black	Kind of forms a ball/bead?	Shirts, dresses, shorts, skirts
28	Moiré Taffe	100% Acetate	Lengthwise is crimped, crosswise is straight, very loosely wound	Burns pretty quick	White/Gray	Chemically with a hint of campfire	Black	Forms a hard, black bead, crumbly	Formalwear, home furnishings, decorative accents

[illegible]