

The Composition of Baby Wipes

Baby wipes are designed to be safe, gentle, and effective for cleaning an infant's sensitive skin. Their composition can be divided into two parts: the **fabric base sheet** and the **liquid solution** that saturates the wipe. Together, they form a product that is typically **70–80% liquid** and **20–30% fabric** by weight.

1. Fabric Base (20–30%)

The fabric is usually a nonwoven material, created by bonding fibers together using heat, pressure, or hydroentangling. The composition often varies by brand, but typical fiber breakdowns include:

Component	Percentage of Fabric Weight	Function
Polyester or Polypropylene	40–60%	Strength, durability, resistance to tearing
Rayon or Cotton	40–60%	Softness, absorbency, natural feel
Biodegradable Fibers (eco-friendly wipes)	Up to 100%	Sustainable alternatives like bamboo, viscose, or lyocell

2. Impregnated Solution (70–80%)

The liquid saturating the wipe is carefully formulated to be mild and skin-friendly. Its approximate composition is as follows:

Component	Percentage of Solution	Function
Water	90–95%	Main carrier, provides moisture
Humectants (e.g., Glycerin)	1–2%	Helps retain skin hydration
Cleansing Agents / Surfactants	0.3–0.6%	Lift dirt and oils gently
Preservatives	0.1–0.3%	Prevent microbial growth
Skin Soothing Agents	0.1–0.5%	Aloe vera, chamomile, panthenol
Fragrance (optional)	<0.1%	Added scent (often omitted for sensitive skin)

In summary, baby wipes consist of a strong yet gentle fabric base and a carefully balanced liquid solution. The fabric typically represents **20–30%** of the product, while the solution makes up **70–80%**. Within the solution, water is the dominant component (over 90%), with small amounts of humectants, preservatives, and soothing agents added to ensure safety, hydration, and mild cleansing action.