

## Acquisition/Distribution Layers (ADL)

### Problem Statement:

New baby diaper designs, with absorbent cores containing high levels of SAP and little fluff pulp, must be capable of accepting a large surge of fluids and distributing it more slowly to the diaper core so that the higher concentration of SAP can be used efficiently.

### Approach:

We took a multi-layered, multi-denier approach, developing a coarse layer to acquire the fluids quickly and a finer distribution layer to hold and wick the fluid in all directions, allowing the SAP to fully absorb the fluids.

### Solution:

Fitesa now offers a new high performance ADL fabric with improved fluid handling characteristics and increased thickness. Key features include:

- 20% improvement in acquisition times
- No reduction in rewet performance
- 30% improvement in thickness
- 10% improvement in MD tensile strength
- Wide range of basis weights and colors

This new fabric allows our customers to choose if they would like to improve the fluid handling performance of their diapers or employ a lower basis weight ADL fabric to reduce cost while maintaining the current fluid handling performance of their diapers.