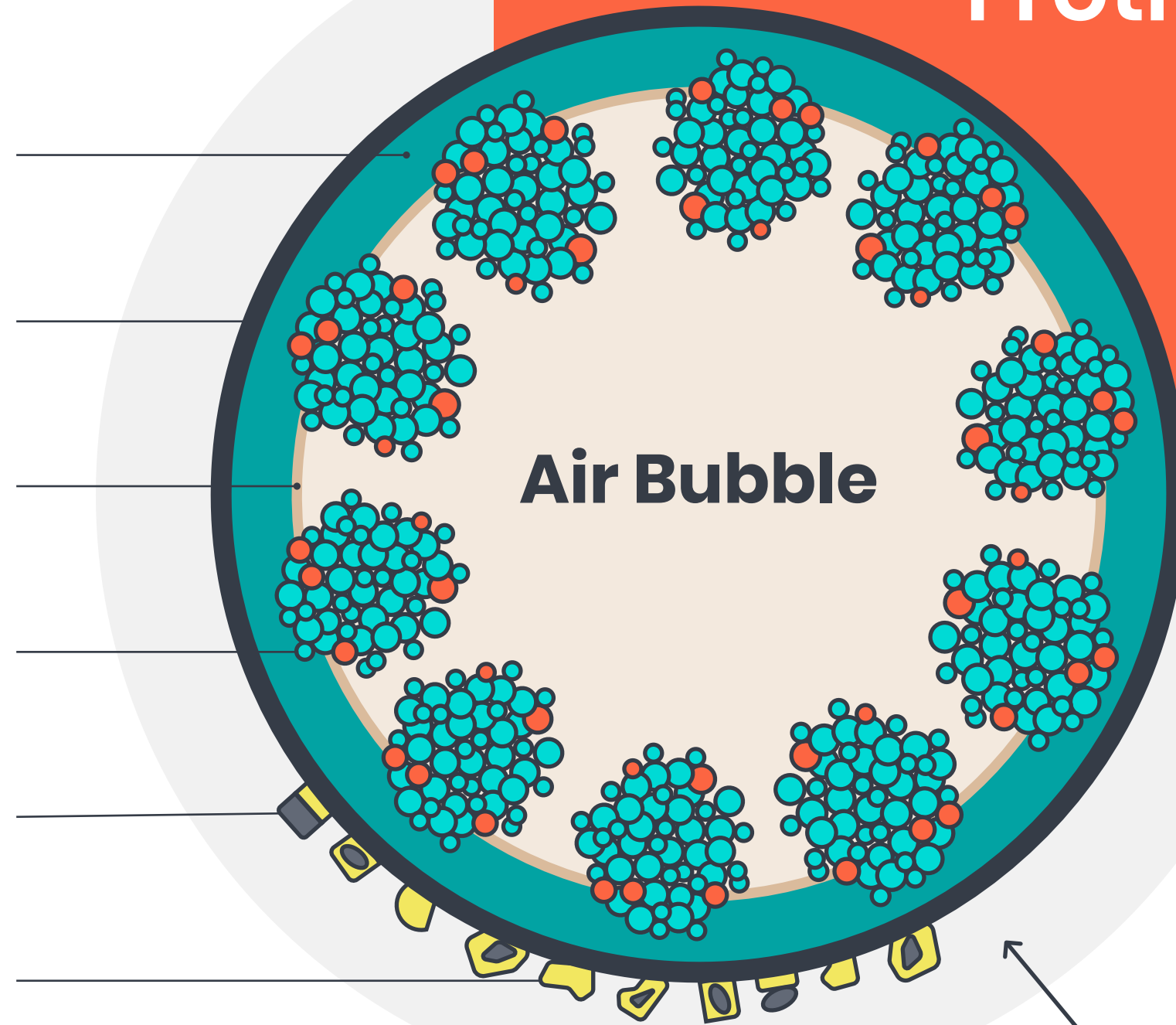


Transfoamer™ Frother Technology



- “Hydrated” Layer
- “Free” Layer
- Air-liquid interface
- Strong Frother
- Gangue particle
- Coarse particle



- “Free” Layer
- “Hydrated” Layer
- Air-liquid interface
- Weaker Frother hydrophilic end (red dot)
- Weaker Frother hydrophobic end (blue and red spheres)
- Gangue particle



pH change
to more alkaline (>11)
triggers the switch



- Water drainage is slower for **strong frothers**, enabling support for coarse value particles
- **Strong frother in the roughers supports recovery of coarse particles and enables optimization of overall recovery and throughput**

Rougher Stage

- **Weak frothers** allow for better water drainage, resulting in reduced entrainment to achieve target grade
- **Weak frother in the cleaners can improve grade, avoid overfrothing, thus debottleneck the circuit and enable better plant performance**

Cleaner Stage