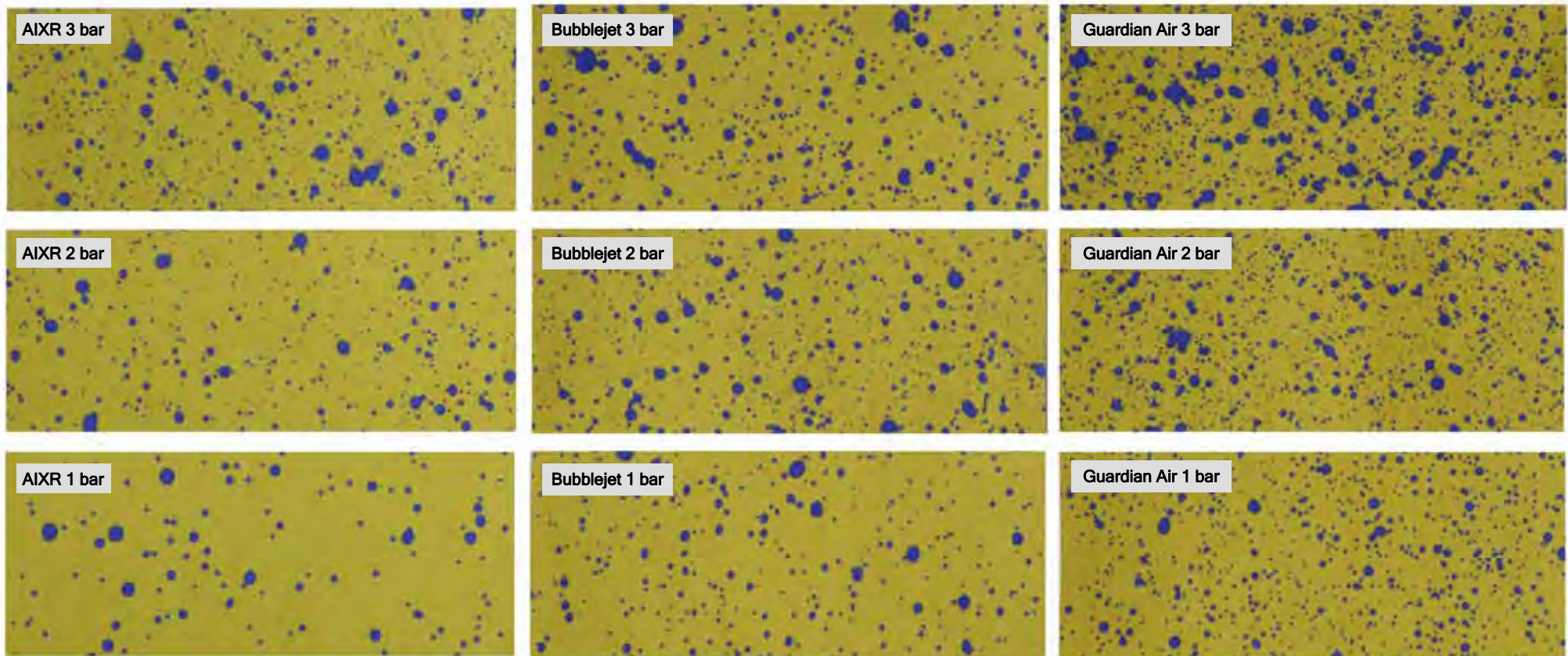


# ALL AIR INCLUSION NOZZLES ARE NOT THE SAME!



- Three of the most commonly used AI nozzles sprayed at different pressures, 1, 2 and 3 bar
- Spray pattern recorded using water sensitive paper, results shown below
- Guardian Air has **twice as many droplets** compared to Bubblejet or AIXR
- More spray droplets means better spray coverage
- ....better coverage is essential for contact acting chemicals to work
- ....better coverage increases the chance of small targets being hit by the spray, especially at low pressures



An HGCA funded project (ref: RD-2006-3273 - ...Improving nozzle selection based on product efficacy to give optimised use and improved spray drift control) has concluded that "Measurements with commercially available air-induction nozzles have confirmed that those with an equivalent specification in terms of flow rate and spray angle at a given pressure give **large differences in the droplet size distribution generated**". This work will ultimately result in a new classification system for AI nozzles.