

WDG Water-Dispersible Graphene Dispersion



*Graphene &
Its applications*

MEXPLORER®

Revolutionary material technology of MExplorer opens paths to Graphene industries

The unique water-dispersion of single-crystal Graphene

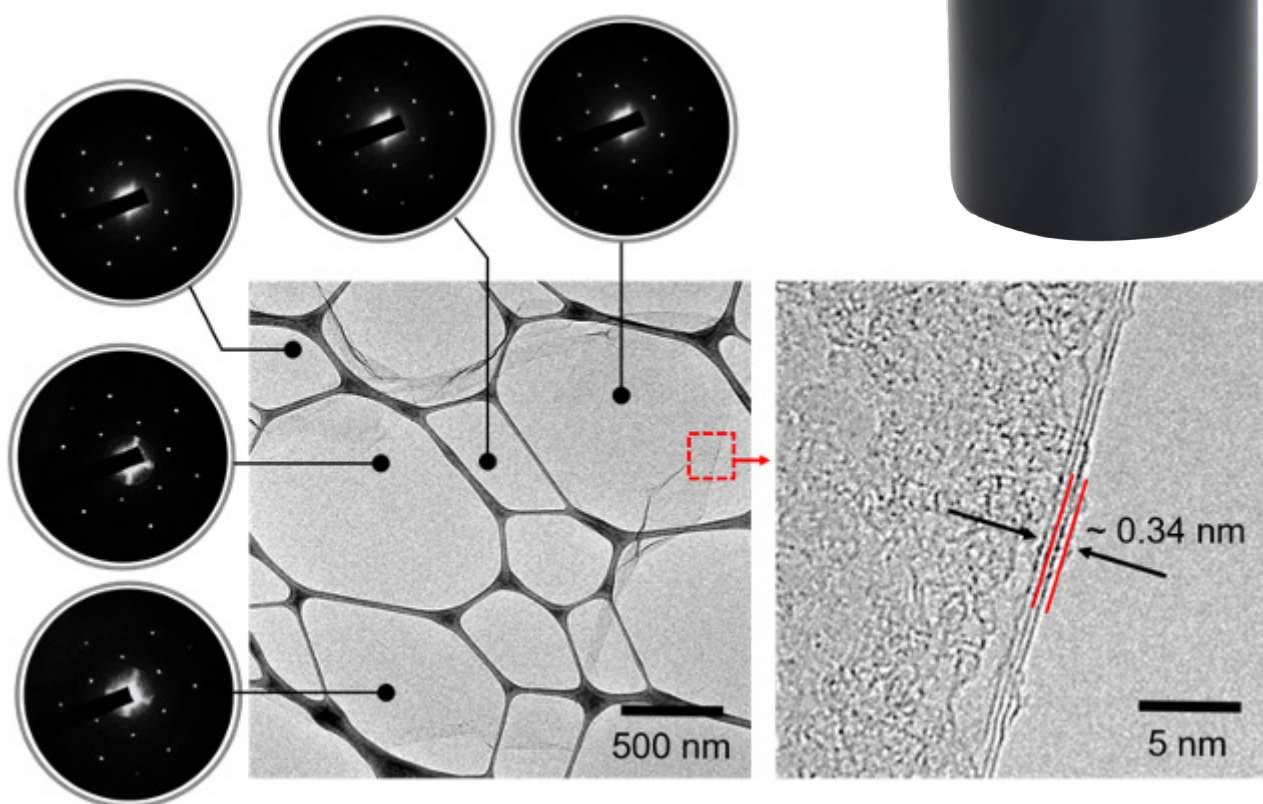
- ✓ Pure water-dispersion of single-crystal Graphene without any dispersants
- ✓ Original mother material for Graphene application products of MExplorer



Water-Dispersible Graphene (WDG) dispersion

Single-crystal Graphene dispersed in WDG of MExplorer

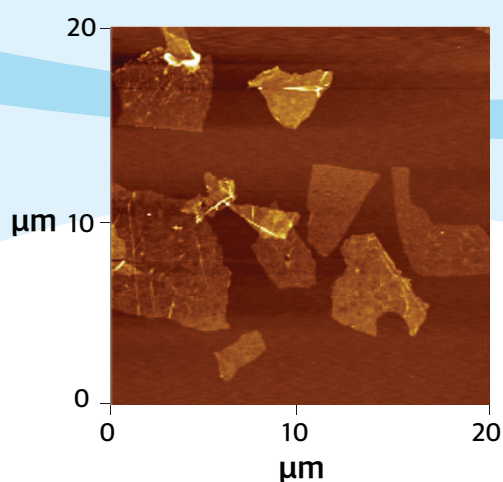
- ✓ Transmission electron microscopy observation of single-crystal graphene dispersed in WDG dispersion



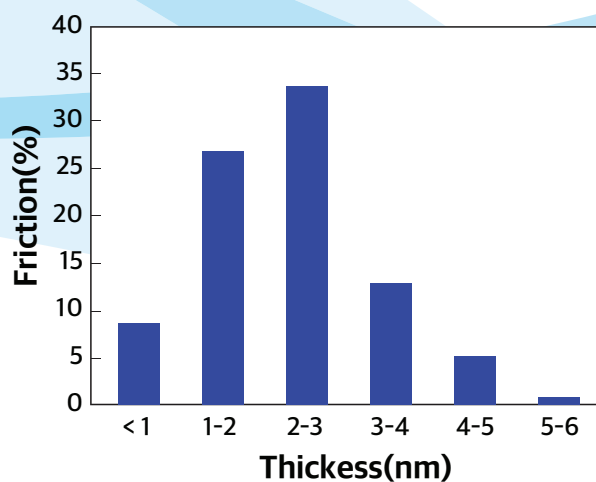
Water-Dispersible Graphene (WDG) dispersion

Atomic force microscopy observation of graphene in WDG of MExplorer

Lateral dimension: 1 - 10 μm



Thickness : 1 - 5 nm



Dispersibility measurement of WDG MExplorer

- ✓ Turbiscan measurement of WDG dispersion
- ✓ WDG dispersion of MExplorer presents the stable dispersibility at least for 12 weeks

