

Innovative Chemical Technologies, Inc.

Specialty Surfactants



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Specialty Surfactants

ICT Specialty Surfactant Products deliver wetting, detergency, and stabilization to meet your formulation requirements. Biobased products are shown in green text.

| Product | Ionic Type | Description | % Solids |
|--------------------------|------------|--------------------------------------|-----------|
| Flexiclean AMP-FB | Amphoteric | Sodium lauriminodipropionate mixture | 39-41 |
| Flexisurf EHDP | Amphoteric | Dipropionate | 49-51 |
| Flexisurf LDP | Amphoteric | Dipropionate | 29-31 |
| Flexisurf COS-37 | Anionic | Fatty Acid Salt | 35.5-36.5 |
| Flexisurf EHS-40 | Anionic | Sulfur-containing | 39-41 |
| Flexisurf LRS | Anionic | Proprietary surfactant | 29.8-31.8 |
| Flexiwet NRW | Anionic | Proprietary surfactant blend | 56.5-60.0 |
| Flexisurf SS-40E | Anionic | Sulfur-containing | 39-41 |
| Flexisurf AO-8 | Nonionic | Amine Oxide | 39-41 |
| Flexisurf DDO-30 | Nonionic | Amine Oxide | 29-31 |
| Flexisurf LO-30 | Nonionic | Amine Oxide | 29-31 |
| Flexisurf MCO-30 | Nonionic | Amine Oxide | 29-31 |
| Flexiwet NR-50 | Nonionic | Proprietary surfactant | 48-49.5 |
| Flexisurf X-5 | Nonionic | Proprietary surfactant blend | 54-63 |
| Flexiwet WBD | Nonionic | Proprietary surfactant blend | 43.5-45.5 |

ICT Specialty Surfactant Products provide a range of foaming properties including high foam, foaming with stable foam, foaming with collapsing foam, as well as low/no foam.

| Ross Miles Foam Test 0.5% actives in DI Water (mm. height @ 25°C) | | | |
|---|---------|-----------------|------------------|
| Product | Initial | After 3 minutes | After 10 minutes |
| Flexiclean AMP-FB | 377 | 334 | 330 |
| Flexisurf EHDP | 5 | 0 | 0 |
| Flexisurf LDP | 359 | 315 | 310 |
| Flexisurf COS-37 | 379 | 320 | 310 |
| Flexisurf EHS-40 | 0 | 0 | 0 |
| Flexisurf LRS | 336 | 256 | 76 |
| Flexiwet NRW | 168 | 142 | 38 |
| Flexisurf SS-40E | 353 | 319 | 300 |
| Flexisurf AO-8 | 0 | 0 | 0 |
| Flexisurf DDO-30 | 352 | 293 | 55 |
| Flexisurf LO-30 | 399 | 326 | 318 |
| Flexisurf MCO-30 | 412 | 347 | 340 |
| Flexiwet NR-50 | 332 | 257 | 49 |
| Flexisurf X-5 | 383 | 340 | 329 |
| Flexiwet WBD | 414 | 344 | 249 |



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These Application Guidance tables are designed to assist with the product selection process. ICT Specialty Surfactant Products deliver benefits to meet your formulation requirements.

| APPLICATION GUIDANCE | | | | | | | | | |
|--|-------------------|------------|-----------|-----------|-----------|-----------|-----------|----------|-----------|
| Application | Use | Flexiclean | Flexisurf | Flexisurf | Flexisurf | Flexisurf | Flexisurf | Flexiwet | Flexisurf |
| | | AMP-FB | EHDP | LDP | COS-37 | EHS-40 | LRS | NRW | SS-40E |
| HI&I Cleaners | Hard Surfaces | X | X | X | X | | X | | |
| | Glass | | | | | X | X | | |
| | Soap Scum Removal | | | | | | | | |
| | Vehicle Exteriors | X | | | | | X | | |
| | Degreaser | | X | X | X | | X | | |
| | Soft Surfaces | | X | | | | | X | X |
| | Foam Booster | X | | X | X | | X | | X |
| | Non-Rewetting | | | | | | | X | |
| HI&I Conditions | Hydrotrope | | X | X | | | | | |
| | Hypochlorite | | | | | | | | |
| | Peracid | | | | | | | | |
| Detergents | Hand Dish Wash | | | | X | | X | | X |
| | Laundry | | | | | | | | |
| Textile Wet Processing | Scour | | X | | | | | X | |
| | Wetting Agent | | X | | | | | X | |
| Personal Care | Wetting Agent | X | X | X | X | | | | X |
| Oil Field | Wetting Agent | | X | X | | X | | | |
| APEO-free | | X | X | X | X | X | X | X | X |
| Phosphate-free | | X | X | X | X | X | X | X | X |
| Non-VOC | | | | | | | X | X | |
| Low VOC | | | | | | | | | |
| FIFRA Inert Ingredient in non-food Pesticides | | | | X | | | | | |

| APPLICATION GUIDANCE | | | | | | | | |
|--|-------------------|-----------|-----------|-----------|-----------|----------|-----------|----------|
| Application | Use | Flexisurf | Flexisurf | Flexisurf | Flexisurf | Flexiwet | Flexisurf | Flexiwet |
| | | AO-8 | DDO-30 | LO-30 | MCO-30 | NR-50 | X-5 | WBD |
| HI&I Cleaners | Hard Surfaces | X | X | X | X | X | X | X |
| | Glass | | | | | | X | |
| | Soap Scum Removal | X | | | | | X | |
| | Vehicle Exteriors | | | | | | X | X |
| | Degreaser | | | | | | X | X |
| | Soft Surfaces | X | X | X | X | X | X | |
| | Foam Booster | | X | X | X | X | X | X |
| | Non-Rewetting | | | | | X | | |
| HI&I Conditions | Hydrotrope | X | | | | | | |
| | Hypochlorite | X | X | X | X | | | X |
| | Peracid | X | X | X | X | | X | X |
| Detergents | Hand Dish Wash | | X | X | | | | |
| | Laundry | X | X | X | X | | X | |
| Textile Wet Processing | Scour | X | X | X | X | X | X | |
| | Wetting Agent | X | X | X | X | X | X | |
| Personal Care | Wetting Agent | | X | X | X | | | |
| Oil Field | Wetting Agent | X | | | | | | |
| APEO-free | | X | X | X | X | X | X | X |
| Phosphate-free | | X | X | X | X | X | X | X |
| Non-VOC | | | | | | | | X |
| Low VOC | | | | | | | X | |
| FIFRA Inert Ingredient in non-food Pesticides | | X | X | X | | | | |



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Surface Tension information is provided to assist with product selection.

| Aqueous Surface Tension, duNoüy ring Wt.% actives in DI water, dynes/cm @ 25°C | | | | |
|---|----------|-----------|----------|----------|
| Product | 0.5 wt.% | 1.0 wt. % | 2.5 wt.% | 5.0 wt.% |
| Flexisurf COS-37 | 24.0 | 24.1 | 26.8 | 28.5 |
| Flexiwet NRW | 26.0 | 26.0 | 26.1 | 26.1 |
| Flexiwet NR-50 | 26.7 | 26.9 | 27.0 | 27.1 |
| Flexiwet WBD | 27.4 | 27.6 | 27.8 | 28.0 |
| Flexisurf X-5 | 27.5 | 27.9 | 28.1 | 28.3 |
| Flexiclean AMP-FB | 28.2 | 29.0 | 29.4 | 29.2 |
| Flexisurf MCO-30 | 30.3 | 30.3 | 30.3 | 30.3 |
| Flexisurf LRS | 30.4 | 29.4 | 28.2 | 27.7 |
| Flexisurf DDO-30 | 31.4 | 31.5 | 31.5 | 31.5 |
| Flexisurf LO-30 | 31.8 | 31.9 | 31.8 | 31.8 |
| Flexisurf EHS-40 | 32.7 | 29.9 | 26.8 | 24.5 |
| Flexisurf LDP | 32.9 | 34.2 | 35.2 | 35.0 |
| Flexisurf EHDP | 33.5 | 34.5 | 27.8 | 32.3 |
| Flexisurf AO-8 | 37.1 | 30.7 | 26.5 | 32.7 |
| Flexisurf SS-40E | 38.6 | 39.9 | 39.8 | 38.8 |



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