



Committed  
to help you

# Oilfied Production Chemicals

Your specific range  
formulated by  
Additives and Fuels Solutions



**TotalEnergies**



# Oilfield production chemicals – our range

TOTAL ENERGIES AFS ADDITIVES RANGE  
FOR CRUDE OIL IS FOCUSED ON:

## FLOW ASSURANCE

Wax & Asphaltene inhibitor  
Pour Point Depressant  
Cleaner  
Drag Reducing Agent

## PHASES SEPARATION

Emulsion Breaker  
Antifoam & Defoamer

## WATER TREATMENT

Flocculant  
Coagulant

## ASSET INTEGRITY

H<sub>2</sub>S scavenger  
Biocide

## ✓ TOTALENERGIES AFS FEATURES

- Expertise and knowledge on additives and management of problematics linked to paraffins cristallization, organic deposit, dispersion and emulsions
- Knowledge on wax control additives and asphaltenes dispersants

- A portfolio has been developed with the support and expertise of TotalEnergies Research Centers but also through academic cooperations and industrial partnerships

| Product Code | Application                         | Comments   |
|--------------|-------------------------------------|--|
| CP XXXX      | Pour Point Depressant               | Control paraffin cristallization. Modify cristal network at low temperature and allow transport below PP                       |
| WIEP XXXX    | Wax Inhibitor                       | Control paraffin cristallization. Avoid deposition and avoid cloging installation  |
| ASI XXXX     | Asphaltene inhibitor and dispersant | Prevent and avoid asphaltene agglomeration and deposition  |
| DFO XXXX     | Drag Reducing Agent                 | Reduce drag in any type of liquid streams  |
| DEEP XXXX    | Emulsion Breaker                    | Used to ensure the specifications of residual water, salt content in the crude and oil-in-water content of the separated water |
| AFEP XXXX    | Antifoam & Defoamer                 | Prevent and reduce foaming (displacement of foam stabilizers or localized surface tension depression)                          |
| CLAR XXXX    | Water Clarifier                     | Reduce oil-in-water content in your water treatment system   |
| ASB XXXX     | H <sub>2</sub> S scavenger          | Reacts with H <sub>2</sub> S in water, gas or hydrocarbon systems  |
| ABEP XXXX    | Biocide                             | Avoid microorganisms development   |



# OILFIELD PRODUCTION CHEMICALS

## FLOW ASSURANCE

| Code                  | Type                                 | Chemistry                                       | Treatment rate (ppm) | Handling and safety*                 |         |              |             |
|-----------------------|--------------------------------------|---|----------------------|--------------------------------------|---------|--------------|-------------|
|                       |                                      |   |                      | Viscosity (40°C, mm <sup>2</sup> /s) | PP (°C) | Flammability | CMR Product |
| CP 3830               |                                      | EVA   | 100 - 2000           | < 1000                               | < 30    | No           | Yes         |
| CP 3850               | Pour Point Depressant                | Polyester / EVA                                 | 100 - 600            | 53                                   | 21      | Category 3   | Yes         |
| CP 3880               |                                      | Polyester                                       | 100 - 2000           | < 30                                 | < 33    | Category 3   | No          |
| WIEP 1501             |                                      | Polyester                                       | 100 - 800            | 12                                   | 15      | Category 3   | No          |
| WIEP 1502             |                                      | Polyester / Dispersant                          | 100 - 800            | 43                                   | 15      | Category 3   | No          |
| WIEP 1503             | Wax Inhibitor                        | Concentrated polyester / Proprietary dispersant | 100 - 800            | 22                                   | 15      | No           | No          |
| WIEP 1565 DW          |                                      | Concentrated polyester / Proprietary dispersant | 100 - 1000           | < 10                                 | < 0     | Category 3   | No          |
| ASI 1262              | Asphaltene Inhibitor & Dispersant    | Concentrated proprietary blend                  | 40 - 800             | 110                                  | < 0     | No           | No          |
| ASI 1262 D            |                                      | Proprietary blend                               | 40 - 800             | 24                                   | < 0     | No           | No          |
| ASI 2300              | Asphaltene Inhibitor & Scale Treater | Proprietary blend                               | 50 - 1000            | 15                                   | < -15   | No           | No          |
| Asphaltene Cleaner HF | Asphaltene Removal                   | Proprietary dispersant                          | TBD                  | < 1                                  | < - 30  | No           | Yes         |
| Wax Cleaner           | Wax removal                          | Proprietary dispersant in aromatic solution     | TBD                  | < 1                                  | < - 30  | No           | Yes         |
| Scale Treater 2332    | Scale Removal                        | Proprietary blend                               | TBD                  | 5                                    | - 33    | No           | Yes         |
| DF0 1000              | Drag Reducing Agent                  | Proprietary blend                               | 5 - 50               | 234                                  | < - 10  | No           | No          |
| DF0 1001              |                                      | Proprietary blend                               | 5 - 50               | > 100                                | < 0     | No           | No          |

## PHASES SEPARATION

| Code        | Type                | Chemistry                  | Treatment rate (ppm) | Handling and safety*                |         |              |             |
|-------------|---------------------|----------------------------|----------------------|-------------------------------------|---------|--------------|-------------|
|             |                     |                            |                      | Viscosity (40°C, m <sup>2</sup> /s) | PP (°C) | Flammability | CMR Product |
| DEEP 1407   |                     |                            |                      | 10 - 30                             | < -15   | Category 3   | No          |
| DEEP 1420   |                     |                            |                      | 23                                  | < - 30  | Category 3   | Yes         |
| DEEP 1421 D | Emulsion breaker    | Proprietary blend          | 2 - 200              | 16                                  | < - 50  | No           | No          |
| DEEP 2200   |                     |                            |                      | 107                                 | < - 39  | Category 3   | No          |
| DEEP 2503   |                     |                            |                      | 174                                 | < - 39  | Category 3   | No          |
| AFEP 1408   |                     | Polyol / Modified PDMS     | 5 - 20               | 199                                 | 9       | No           | No          |
| AFEP 1408 D | Antifoam & Defoamer | Modified PDMS              | 3 - 15               | 53                                  | < - 39  | Category 3   | No          |
| AFEP 1413   |                     | Modified PDMS              | 5 - 20               | 412                                 | 9       | No           | No          |
| AFEP 6031   |                     | PDMS 60000 cSt in solution | 5 - 100              | 123                                 | < - 39  | Category 3   | No          |

\* For more details on risk and hazards of the product, please refer to the corresponding Material Safety Data Sheet

# - OUR RANGE

## WATER TREATMENT

| Code        | Type      | Chemistry | Treatment rate (ppm) | Handling and safety*                 |         |              |             |
|-------------|-----------|-----------|----------------------|--------------------------------------|---------|--------------|-------------|
|             |           |           |                      | Viscosity (40°C, mm <sup>2</sup> /s) | PP (°C) | Flammability | CMR Product |
| CLAR 2317   | Clarifier | Coagulant | 10 - 50              | < 500                                | - 10    | No           | No          |
| CLAR 2320   |           |           | 10 - 50              | < 50                                 | < 0     | No           | No          |
| CLAR 2329   |           |           | 10 - 50              | < 1000                               | - 3     | No           | No          |
| CLAR 2332   |           |           | 10 - 50              | < 7500                               | - 3     | No           | No          |
| CLAR 2332 D |           |           | 20 - 100             | < 1500                               | - 3     | No           | No          |
| CLAR 2344   |           |           | 10 - 50              | < 7                                  | - 3     | No           | No          |
| CLAR 2345   |           |           | 10 - 50              | < 10 000                             | - 3     | No           | No          |
| CLAR 2345 D |           |           | 20 - 100             | < 600                                | - 3     | No           | No          |
| CLAR 2346   |           |           | 10 - 50              | < 500                                | < - 7   | No           | No          |
| CLAR 2347   |           |           | Flocculant           |                                      | 1 - 10  | < 2 000      | < 5         |
| CLAR 2360   | 1 - 10    | < 600     |                      |                                      | < 0     | No           | No          |

## ASSET INTEGRITY

| Code         | Type                       | Chemistry                        | Treatment rate (ppm)                       | Handling and safety*                 |         |              |             |
|--------------|----------------------------|----------------------------------|--|--------------------------------------|---------|--------------|-------------|
|              |                            |                                  |  | Viscosity (40°C, mm <sup>2</sup> /s) | PP (°C) | Flammability | CMR Product |
| ASB 1292     | H <sub>2</sub> S Scavenger | Oxazolidine                      | 2 (H <sub>2</sub> S in liquid phase)       | 20                                   | < - 30  | No           | Yes         |
| ASB 1293     |                            | MEA Triazine 80%                 | 4 - 5 (H <sub>2</sub> S in liquid phase)   | 91                                   | 0       | No           | Yes         |
| ASB 1293 D   |                            | MEA Triazine 50%                 | 6,5 - 8 (H <sub>2</sub> S in liquid phase) | 20                                   | 0       | No           | Yes         |
| ABEP 1561 C  | Biocide                    | Formol/THPS/ quaternary ammonium | 200 - 400                                  | 6                                    | 0       | No           | Yes         |
| ABEP 1562    |                            | Formol/THPS                      | 200 - 400                                  | 7                                    | 0       | No           | Yes         |
| ABEP 1564    |                            | Oxazolidine                      | 200 - 400                                  | 20                                   | < - 30  | No           | Yes         |
| ABEP 1802    |                            | DBNPA 20%                        | 20 - 400                                   | 4                                    | 0       | No           | Yes         |
| ABEP 2375    |                            | THPS 75%                         | 200 - 400                                  | 20                                   | 0       | No           | Yes         |
| Fuel Biocide |                            | CIT/MIT                          | TBD  | 29                                   | 0       | No           | No          |

\* For more details on risk and hazards of the product, please refer to the corresponding Material Safety Data Sheet





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**TotalEnergies**

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