

The following 5 specific product groups within drilling offer manufacturing opportunities in the UAE:

Drilling Fluids - Salts

Drilling Fluids - Bromide & Biopolymer

Drilling Fluids - ultra Low Toxicity Base Oil

Steel Billets for OCTG

Drill pipe - Tool Joints

# Drilling

Drilling Fluids - Salts



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## Overview

Opportunities to manufacture drilling fluids (salt) in the UAE:



### Opportunity

- Absence of 100% manufacturer in UAE
- Key Components in drilling and completion fluids operation
- Extensively used regionally and globally



### Applications

- Upstream Drilling and completion fluids operation
- Other industries ( ie, food industry... )

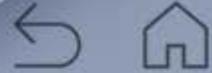


### ADNOC Standards / Specifications Requirements

- ADNOC Specifications

# Drilling

Drilling Fluids - Bromide & Biopolymer



## Overview

Opportunities to manufacture drilling fluids in the UAE (bromides, biopolymer):



### Opportunity

- No manufacturer in the UAE
- Key Components in ADNOC drilling & completion fluids operation
- Increased price due to high demand, shipment cost.



### Applications

- Upstream Drilling and completion fluids operation
- Other industries ( ie, Bromines for fire retardant, XC polymer for food industry,... )



### ADNOC Standards / Specifications Requirements

- API 13 A
- ADNOC Specifications

# Drilling

Drilling Fluids - ultra Low Toxicity Base Oil



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## Overview

Opportunities to manufacture drilling fluids (ultra low toxicity base oil) in the UAE:



### Opportunity

- Currently Base Oil is brought from Overseas
- Increased demand for Non-Aqueous-Fluids operation
- Widely used regionally and globally



### Applications

- Upstream Drilling fluids operation



### ADNOC Standards / Specifications Requirements

- OGP – GROUP III base oil
- ADNOC Specifications

# Drilling

Steel Billets for OCTG



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## Overview

Opportunities to manufacture steel billets in the UAE:



### Opportunity

- No existing manufacturer in the UAE
- Key component in Seamless OCTG which is required for ADNOC's drilling operations
- Additional opportunity for Seamless Line Pipe
- Leveraging the consumption of Casing / Tubing / Pipes in UAE and MENA region
- Market seeing increased price due to high demand & shipment cost.



### Applications

- Carbon steel casing and tubing, seamless line pipes for oil / gas / water wells and surface facility plant.



### ADNOC Standards / Specifications Requirements

- API 5CT, API 5L, STD-01, AGES-SP-10-001

# Drilling

Drill pipe - Tool Joints



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## Overview

Opportunities to manufacture drill pipes in the UAE:



### Opportunity

- No existing manufacturer in the UAE
- Key component of ADNOC's drilling operations
- Opportunity to manufacture drill pipes including:
  - Manufacturing tool joints
  - Welding tool joints to the pipes
  - Finishing and dispatching



### Applications

- Drilling operation on the rig site
- From non-sour to sour service drill pipes
- Drill pipe accessories



### ADNOC Standards / Specifications Requirements

- API 5DP
- ADNOC Standard STD-07