

# MCS-Crystal

## Achieve superior bonding and zonal isolation

### Applications

- Primary and remedial cementing operations
- Slimhole and coiled tubing (CT) cementing operations
- High-temperature and high-pressure (HTHP) wells
- Horizontal and deviated well cementing

### Features and benefits

- Compatible with virtually all API, ASTM, pozzolan, lightweight cements, and most Baker Hughes cementing additives
- Compatible with most oil-based, synthetic oil-based, and water-based muds ensuring efficient mud removal
- Water-wetting properties enhance bonding to the formation and pipe
  - Result in better zonal isolation
  - Reduces or eliminates risk of unwated remedial cementing jobs
  - Minimizes risk of lost or unwanted production from the reservoir
- Improves cement-to-formation and cement-to-pipe bonding for superior zonal isolation
- Can be used in unweighted or weighted spacers from 8.5 to over 20 ppg (1019 to 2397 kg/m<sup>3</sup>)
- Effective in a wide range of well temperatures from 75 to 400°F (24 to 204°C) BHCT

The Baker Hughes MCS-Crystal cement spacer surfactant is a versatile non-ionic surface-active agent designed to enhance cementing operations. It effectively prevents mud incompatibility and significantly improves bonding between the cement, formation, and pipe. MCS-Crystal superior water-wetting properties ensure efficient mud removal and superior zonal isolation, reducing the need for remedial cementing and minimizing the risk of lost production. Compatible with a wide range of cements and drilling fluids, MCS-Crystal simplifies the cementing process and ensures reliable performance in challenging well conditions.

### Materials compatibility

Mud, spacer, and cement ompatibility testing is recommended prior to the job.

### Safety and handling

Before handling, storage, or use, review the Safety Data Sheet (SDS) for guidance.

### References

Cementing Engineering Support manual.

Typical properties	
	MCS-Crystal
<b>Appearance</b>	Clear amber liquid
<b>Specific gravity</b>	1.02
<b>Typical concentrations</b>	Up to 6 gal per bbl of cement spacer