

IMERYS ProLite®

US - Manufactured product Economy lightweight proppant

ECONOMY

A true kaolin lightweight ceramic proppant.

AMERICAN-MADE

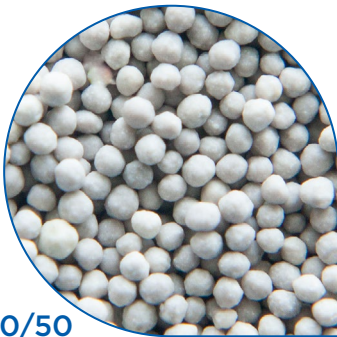
Made from local materials in the U.S.A.

INNOVATIVE

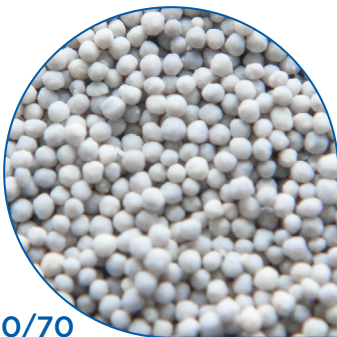
Available in three mesh sizes 20/40, 30/50, 40/70.



20/40



30/50



40/70

Typical Sieve Analysis *(weight % retained)*

| US Mesh | Microns | ProLite® 20/40 | ProLite® 30/50 | ProLite® 40/70 |
|-------------|------------|-------------------|-------------------|-------------------|
| -16+20 mesh | -1,200+840 | 2.2 | 0.1 | |
| -20+30 mesh | -840+600 | 74.5 | 4.7 | |
| -30+40 mesh | -600+420 | 21.8 | 88.4 | 0.4 |
| -40+50 mesh | -420+300 | 1.5 | 6.9 | 93.7 |
| -50+70 mesh | -300+210 | | | 5.9 |
| -70 mesh | -210 | | | 0.1 |

| Median Particle Diameter (µm) | 669 | 510 | 350 |
|-------------------------------|-----|-----|-----|
|-------------------------------|-----|-----|-----|

| API/ISO Crush Test % by weight fines generated | 10,000 psi | ≤9.0 | ≤6.0 | ≤5.0 |
|---|------------|------|------|------|
|---|------------|------|------|------|

Typical Additional Properties of IMERYS ProLite®

| | ≥0.8 | ≥0.8 | ≥0.8 |
|---|-------------|-------------|-------------|
| Roundness | ≥0.8 | ≥0.8 | ≥0.8 |
| Sphericity | 95 ± 5 | 95 ± 5 | 95 ± 5 |
| Bulk Density (lb/ft ³) | 2.70 ± 0.05 | 2.70 ± 0.05 | 2.65 ± 0.05 |
| Absolute Specific Gravity | 0.044 | 0.044 | 0.045 |
| Absolute Specific Volume (gal/lb) | ≤3 | ≤3 | ≤3 |
| Solubility in 12/3 HCl/HF Acid (% weight loss) | | | |

*Superior Performance
You Can Trust For
Your Unconventional
Challenges*

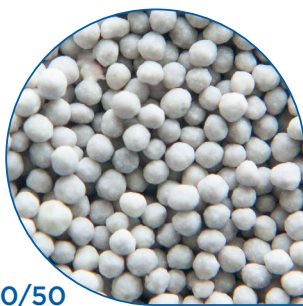


PERFORMANCE of IMERYS ProLite®

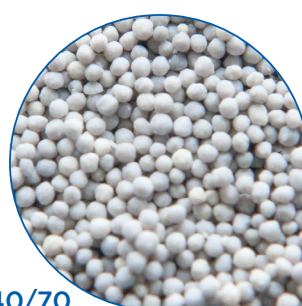
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20/40



30/50

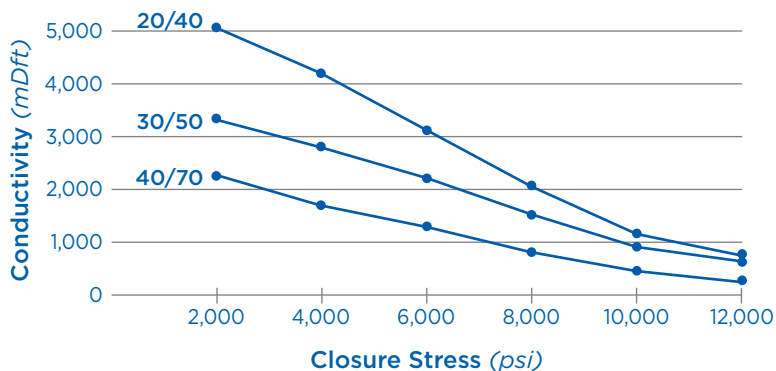


40/70

Long Term Conductivity*

2lb/ft² - 250°F - 2% KCL Water - Ohio Sandstone

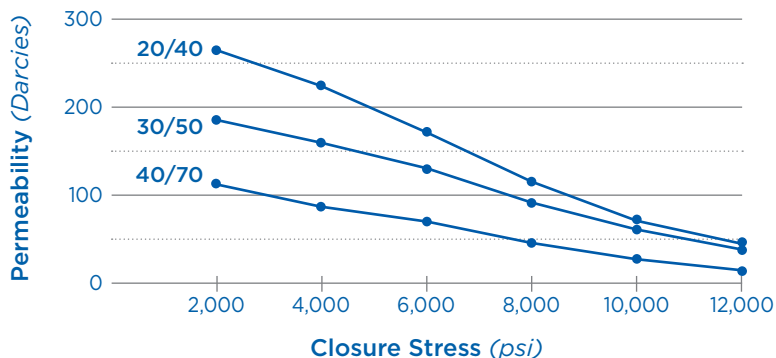
| Closure Stress (psi) | ProLite® 20/40 | ProLite® 30/50 | ProLite® 40/70 |
|----------------------|----------------|----------------|----------------|
| 2,000 | 5,109 | 3,351 | 2,282 |
| 4,000 | 4,185 | 2,816 | 1,692 |
| 6,000 | 3,157 | 2,241 | 1,315 |
| 8,000 | 2,026 | 1,528 | 837 |
| 10,000 | 1,184 | 939 | 448 |
| 12,000 | 767 | 649 | 246 |



Long Term Permeability*

2lb/ft² - 250°F - 2% KCL Water - Ohio Sandstone

| Closure Stress (psi) | ProLite® 20/40 | ProLite® 30/50 | ProLite® 40/70 |
|----------------------|----------------|----------------|----------------|
| 2,000 | 261 | 183 | 110 |
| 4,000 | 219 | 158 | 85 |
| 6,000 | 169 | 128 | 67 |
| 8,000 | 113 | 90 | 44 |
| 10,000 | 69 | 57 | 24 |
| 12,000 | 43 | 41 | 14 |



* Conductivity and Permeability testing completed per API RP 19D / ISO 13503-5 specification. All data measured by third party industry independent test laboratory in 2012/2013.



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