

TRU-MILL™ COMPOSITE PLUGS

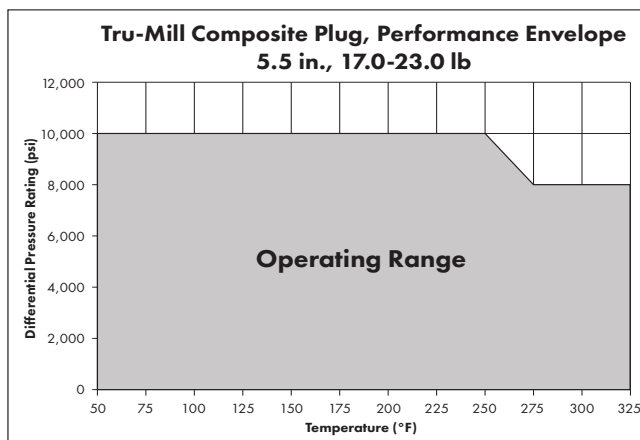


DESCRIPTION

C&J Tru-Mill composite plugs are engineered to meet today’s market demands of low-cost, high performance, and highly reliable completion tools. Run downhole on wireline, they can be used to isolate zones in vertical, deviated and horizontal wells during hydraulic stimulation. They can then be drilled out efficiently using coil or stick pipe, which enables full wellbore flow.

BENEFITS

- Frac ball is run within the assembly, which reduces water consumption and time to seat pinned attachments
- Tight-fitting, pressed-on sealing element enables faster run speeds without the risk of plug damage and presets
- High-performance, 100% backed-up element system provides a robust seal in a wide range of casing IDs, at elevated temperatures, for extended periods
- Composite or cast-iron slip options provide design flexibility
- Several interlocking components, strategic material choices and predefined break points result in decreased milling times
- Standard, filament-wound mandrel or premium, molded-mandrel options are available
- Extensive product qualification includes materials analysis, subcomponent testing and full-scale HPHT, flow-by, impact and mill testing¹
- Comprehensive QA/QC requirements, unique to composite plugs, ensure all components meet or exceed standards established during product qualification
- Plugs are designed, built and tested at the C&J Research & Technology Center in Houston, TX – an ISO 9001:2015-certified facility



SPECIFICATIONS

Size (in.)	Weight Range (lb/ft)	Tool OD (in.)	Tool ID (in.)	Tool Length (in.)	Maximum Pressure (psi)	Maximum Temperature (°F)
5.5	17.0-23.0	4.38	1.25	21.94	10,000	325

¹Documentation available upon request

Cast-Iron Slip Plug

CASING				PLUG							
Size (in.)	Weight (lb/ft)	Minimum ID (in.)	Maximum ID (in.)	OD (in.)	ID (in.)	OAL (in.)	Ball Diameter (in.)	Temperature (°F)	Pressure Rating (psi)	Mandrel/Bottom Sub	P/N
5.5	17-23	4.578	4.976	4.38	1.25	21.9	2.125	325	10,000	FW	CJ0114063
5.5	17-23	4.578	4.976	4.38	1.25	21.7	2.125	325	10,000	Molded	CJ0123509



Filament-Wound Plug with Cast-Iron Slips

Composite Upper/Cast-Iron Lower Slip Plug

CASING				PLUG							
Size (in.)	Weight (lb/ft)	Minimum ID (in.)	Maximum ID (in.)	OD (in.)	ID (in.)	OAL (in.)	Ball Diameter (in.)	Temperature (°F)	Pressure Rating (psi)	Mandrel/Bottom Sub	P/N
5.5	17-23	4.578	4.976	4.38	1.25	21.9	2.125	325	10,000	FW	CJ0152034
5.5	17-23	4.578	4.976	4.38	1.25	21.7	2.125	325	10,000	Molded	CJ0152035



Filament-Wound Plug with Composite Upper Slip

Composite Upper/Composite Lower Slip Plug*

CASING				PLUG							
Size (in.)	Weight (lb/ft)	Minimum ID (in.)	Maximum ID (in.)	OD (in.)	ID (in.)	OAL (in.)	Ball Diameter (in.)	Temperature (°F)	Pressure Rating (psi)	Mandrel/Bottom Sub	P/N
5.5	17-23	4.578	4.976	4.38	1.25	21.9	2.125	325	8,000	FW	CJ0152036
5.5	17-23	4.578	4.976	4.38	1.25	21.7	2.125	325	8,000	Molded	CJ0152037

* Composite lower slip in development
FW = filament-wound