

TRU-MILL™ COMPOSITE PLUG



DESCRIPTION

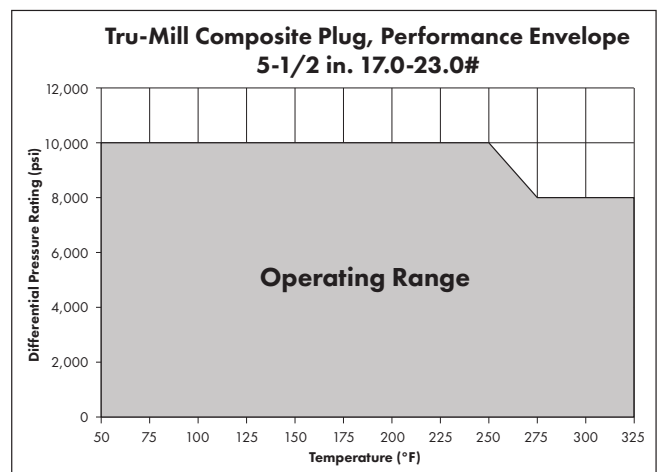
C&J's Tru-Mill Composite Plugs are engineered to meet today's market demands of low-cost, high performance, and highly reliable completion tools. Run downhole on wireline, they can be used to isolate zones in vertical, deviated, and horizontal wells during hydraulic stimulation. They can then be drilled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

BENEFITS

- Strong cast iron slip rings, pinned attachments, and an interference-fit sealing element ensure faster run speeds without the risk of plug damage and pre-sets
- High performance, 100% backed-up Element system provides a robust seal in a wide range of casing IDs, at elevated temperatures, for extended periods
- Several interlocking components, strategic material choices, and pre-defined break points result in decreased milling times
- Extensive product qualification, including materials analysis, sub-component testing, and full-scale HPHT, flow-by, impact, & mill testing¹
- Comprehensive QA/QC requirements, unique to composite plugs, ensure all components meet or exceed standards established during product qualification
- Plugs designed, built, and tested at the C&J Research & Technology Center in Houston, TX – an ISO 9001:2008 certified facility

APPLICATIONS

- Ball Drop Frac Plug
- Caged Ball Frac Plug – *Not Developed*
- Bridge Plug – *Not Developed*



SPECIFICATIONS

Size (in.)	Weight Range (lb/ft)	Tool OD (in.)	Tool ID (in.)	Tool Length (in.)	Maximum Pressure (psi)	Maximum Temperature (°F)
5-1/2	17.0-23.0	4.38	1.25	23.38	10,000	325

¹Documentation available upon request

SUPPLEMENTAL INFORMATION

5-1/2" Tru-Mill Composite Plug

Product Number	CJ0058669
Product Name	5-1/2" Tru-Mill Composite Plug
Product Type	Composite Plug
Product Characteristics	See Page 1
Service Provided	See Page 1
Metallic Materials	Cast Iron Slips per ASTM A48, 6061 Al Backup Ring
Non-Metallic Materials	HNBR Sealing Element, Fiberglass/Epoxy/Phenolic Composites
Drift Diameter	N/A
Gauge OD	4.38"
OAL	23.38"
Temperature Range	Ambient - 325°F
Temperature Cycle Range	N/A
Rating Performance Envelope	See Chart 1
Pressure Rating	10,000 psi
Top Connection	N/A (Pinned)
Bottom Connection	N/A (Muleshoe)
Casing	5-1/2" 17.0-23.0# P110 or Lower
Conveyance Method	Wireline
Maximum Conveyance OD	Gauge OD
Setting Method	Wireline Setting Force 34,000-38,000 lbs
Retrieval Method	Drillout (Coil or Conventional)
Repositioning Method	N/A
Operating Manual Reference Number	0002256

5-1/2" Tru-Mill Composite Plug

Material	Total Percentage by Volume	Total Percentage by Weight	Weight (lbs)
Composite	80%	68%	12.81
Rubber	12%	7%	1.25
Metal	8%	25%	4.75

18.81 Total