

Application: 5065

CARBOISP Lite: Powering Lightweight Strength with Low Emissions

Page: General Information

Provide information about the company to be considered for the award. If you will be nominating an individual, specify the nominee's employer.

Name of Organization/Company

CARBO

Additional Contacts

I do not wish to list additional contacts

Page: Entry Information

Entry Title

CARBOISP Lite: Powering Lightweight Strength with Low Emissions

Category

K05. New Product of the Year - Energy Technology

New Product Submission Format

Written Answers

a. Briefly describe the organization that developed the nominated new product: its history and past performance (up to 200 words). Required

CARBO® is a global technology company that enhances client value by providing products and services to several markets, including oil and gas, industrial, agricultural, and environmental markets.

CARBO Energy is a leading provider of market-leading technologies to create engineered production enhancement solutions that help Exploration and Production operators design, build, and optimize the frac, increasing well production and estimating ultimate recovery and lower finding and development costs per barrel of oil equivalent.

CARBO is a leader in developing, designing, and manufacturing ceramics media for industrial applications and has had many awards validating its position, including Management Team of the Year at the International Business Awards, Energy Technology of the Year at the International Business Awards, Spotlight on Technology at OTC Awards and many more.

b. Specify the date on which this nominated product was introduced to the marketplace. Outline the nominated product's features, functions, benefits and novelty (up to 250 words). Required

CARBO introduced the CARBOISP Lite in February 2024.

CARBOISP Lite is a newer version of a ceramic proppant that is used by exploration and production operators in their well's completion programs.

CARBOISP LITE is an innovative proppant technology that combines the characteristics of an intermediate-strength proppant with all the advantages of lightweight ceramics, providing optimum fracture conductivity and proppant transport. CARBOISP LITE allows operators to reduce their overall operations' CO2 carbon footprint, and its low density enables a higher volumetric yield compared to conventional ISPs – directly translating into savings on required volumes, logistics, and storage costs, reducing water and additives requirements and allowing easier and faster completion cleanup and remediation times

Features

Bulk density and specific gravity match sand and lightweight ceramics

Similar crush resistance compared to intermediate strength proppants

Improved proppant transport

Compatible with all fluid systems

Low manufacturing and logistics CO2 footprint

Benefits

ISP performance with lightweight density savings

Delivers a 20% higher volumetric yield and 20% lower proppant requirement and savings compared to conventional ISPs

Enhanced proppant transport allows the use of lower viscosity and cleaner frac fluids.

Reduces pumped water requirements, easier and faster cleanup times

Up to 80% lower CO2 footprint compared to conventional intermediate strength proppant

The novelty of this product is that operators are able to use 20% less product than conventional options, reduce their transportation needs and CO2 scope 2 & 3 emissions, reduce the cost of completing the program, and, as a result, deliver more affordable energy to the consumers.

c. Explain why the nominated product is unique or significant. If possible compare the product to competitors' offerings and/or to the organization's other or past products (up to 250 words). Required

CARBOISP Lite represents a significant breakthrough in a 40+ year-old industry that has seen minimal innovation. This product enables exploration and production operators to replace heavier legacy options with lighter alternatives, thereby reducing trucking requirements, miles driven, and emissions from transportation. Additionally, it helps in mitigating safety risks associated with logistics, lowering operational costs, and offers a product manufactured using a unique and safe process that achieves up to an 80% reduction in emissions from proppant, a major consumable in the completion program.

The competition uses old technology to make intermediate-strength proppant, and in many instances, they use coal to sinter ceramics media. CARBO has been committed to using natural gas as the only available energy source that can deliver sintering temperatures with minimum emissions. The energy source, coupled with enhanced manufacturing know-how, delivers a technology with no competition in the market and opens the door for better, more sustainable energy for everyone.

d. Reference any attachments of supporting materials throughout this nomination and how they provide evidence of the claims you have made in this nomination (up to 250 words). Optional

We are attaching a few brochures and links to the product itself.

Webpage Link

<https://www.carboceramics.com/products/carbolsp-lite> (<https://www.carboceramics.com/products/carbolsp-lite>)

Would you like to add an additional webpage link?

No

Supporting Document

Download File (https://stevies-tech.secure-platform.com/file/67847/eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJtZWRRpYUlkiJ02Nzg0NywiYWxsY3dOb3RtaWduZWRVcmwiOiJGYWxzZSIsImInbm91CARBOISP-LITE_tds.pdf)

Would you like to add an additional supporting document?

No

By your submission of this entry to The Stevie Awards, you verify that you have read and agreed to abide by the regulations, terms and conditions of the competition (<https://www.asia.stevieawards.com/rules-and-terms-conditions-competition>).

Terms and Conditions

I Agree