

TECHNICAL DATA SHEET



NewVEX™ - Permissible Emulsion Explosives

Description

NewVEX™ is a Water in Oil (W/O) type emulsion explosive packaged in paper. NewVEX™ is mainly designed for use in underground coal mines to reduce the flame size, explosion temperature and blasting fumes. With water, heat-reducing agent, flame extinguishing agent and inert matter as its components, NewVEX™ does not cause secondary explosion such as gas or dust explosion in underground coal mines. It has excellent anti-shock properties strengthened by a physical sensitizer.

Features & Benefits



NewVEX™ is designed to prevent gas and coal dust explosion from flame using heat-reducing and flame extinguishing agents. It also emits lower level of blasting fumes with reduced level of CO and NOx as well as other harmful gases. NewVEX™ is highly resistant to impact and explosive residues even in close spacing of underground coal mines.

NewVEX™ 28mm

Permissible explosive approved for use in underground coal mines.

NewVEX™ 50mm

Relative bulk strength is about 10% greater than that of NewVEX™ 28mm. It is mainly used for blasting rocks inside underground coal mines.

Technical Data

NewVEX™	
Velocity of Detonation [VOD] (m/s) (A)	4,500
Density (g/cc)	1.07
Relative Weight Strength (%) (B)	79
Relative Bulk Strength (%) (B)	103
Water Resistance	Excellent
Minimum Usage Temperature	Down to -20°C
Shelf Life	1 year

(A): Confined @ 36mm diameter

(B): ANFO = 100% @ 0.80g/cc, calculations with 100 MPa

Hazard Classification

Authorized Name	NewVEX™
UN No.	0241
Classification	1.1D
Proper Shipping Name	EXPLOSIVE BLASTING, TYPE E

Packaging

NewVEX™		
Packaging	Paper Cartridge	
Diameter (mm)	28	50
Length (mm)	200	420
Weight (g/each)	125	1,000
Box Size (mm)	445x350x220	470x285x195
Quantity (each/box)	160	20
Net Explosive Weight (kg/box)	20	20

* The error range of weight/cartridge in the table above is -3 to +5%

Safety

When using NewVEX™ avoid contact with eyes or skin and wash hands thoroughly after handling. Keep NewVEX™ away from sources of heat, sparks, flame or hot surfaces and avoid mixing with combustibles or incompatible materials.

Storage

All explosives are classified as Dangerous Goods and must be stored and secured in accordance with relevant local and national regulations.

NewVEX™

Revised on: July 9th, 2020 (Ver 1.2)

www.hanwhacorp.co.kr/eng/explosives

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The use of Product is an intrinsically dangerous activity and must be restricted to qualified and trained users in possession of any necessary permits and licenses. Always comply with appropriate safety and risk prevention measures and with applicable laws.

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