

## Product Description

HydraForce is Platinum Blasting's augured suite of bulk products ranging from ANFo through to emulsion doped HANFO (Heavy ANFo) blends designed to be suitable for dry or dewatered blast blastholes.



## Application

HydraForce has been designed for use in open cut mining where additional energy is desired or where a level of water resistance is required. The product is also suitable to use in dry or dewatered blastholes. Prior to use in dewatered blastholes the water recharge rates should always be determined.

HydraForce is not suitable for use in areas containing reactive sulphides or in blastholes with temperatures in excess of 55 degrees Celsius.

## Benefits

- Suitable for application in dewatered or dry blastholes.
- Density and energies can be varied by modifying the ANFO:Emulsion ratio to suit the specific application.
- Full coupling of the explosive charge provides superior blasting results.
- Product is delivered via an MPU auger.

## Priming

Blastholes Diameter	Recommended Minimum Booster Size
Less than / equal to 102mm	120gm
Greater than 102mm	340gm

## Loaded Sleep-Time

HydraForce sleep time is influenced by several factors including, blasthole conditions, diameter, depth and method of initiation. A maximum of 21 days is recommended to minimize any adverse conditions.

## Packaging

HydraForce is available only as a bulk explosive and is delivered through specialised explosive delivery vehicles.

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## Safety & Handling

Please refer to the relevant Safety Data Sheet (SDS) for information regarding the safe handling of this product.

## Technical Product Properties

Name	HydraForce-X-0	HydraForce-X-10	HydraForce-X-20	HydraForce-X-30	HydraForce-X-40
Density (t/m <sup>3</sup> )	0.8	0.85-0.95	0.95-1.05	1.05-1.15	1.15-1.23
Min Blasthole Diameter (mm)	76	102	115	140	150
Max Charge Length (m)	75	55	55	50	50
Blasthole Condition	Dry	Dry	Dry	Dry/Dewatered	Dry/Dewatered
Delivery Method	Auger	Auger	Auger	Auger	Auger
Min Booster Size (gm)	340	340	340	340	340
Velocity of Detonation (m/s)	2,500-4,500	4,000-5,300	4,000-5700	4,100-6,000	4,500-6,500
Relative Weight Strength	100	92	90 - 92	88 -89	86 - 87
Relative Bulk Strength	100	108	108 - 110	119 - 121	131 - 133

Name	HydraForce-X-50 Gassed	HydraForce-X-60 Gassed	HydraForce-X-70 Gassed
Density (t/m <sup>3</sup> )	1.05-1.28	0.95-1.28	0.95-1.28
Min Blast Hole Diameter (mm)	102	102	102
Max Charge Length (m)	40	40	40
Hole Condition			
Delivery Method	Augur	Augur	Augur
Min Boosters Size (gm)	340	340	340
Velocity of Detonation (m/s)	4,500 – 6,700	4,300 – 6,500	4,200-6,500
Total Energy MJ/kg	3.2-3.3	3.1-3.2	2.9-3.1
Relative Weight Strength	82 - 86	79 - 81	76 - 78
Relative Bulk Strength	116 - 120	112-116	108 - 112

- RWS and RBS are relative to ANFO at 100 to 20MPa

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## Storage & Transport

This product is classified as an Explosive and must be stored and transported in accordance with the relevant State/ Territory and Commonwealth regulations

## Dangerous Good Classification

Product Name:	HydraForce
Correct Shipping Name:	Explosive, Blasting, Type E
UN Number	0241
DG Class	1.1D



## Manufacturer

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In case of emergency / specialist advice call 1800 885 411

### Disclaimer

Information contained in this data sheet is up-to-date and correct as at the date of issue. As Platinum Blasting Services cannot control or anticipate the conditions under which this product may be used, each user should review the information in specific context of the planned use. To the maximum extent permitted by law, Platinum Blasting Services will not be responsible for damages of any nature resulting from the use or reliance upon the information contained in this data sheet. No express or implied warranties are given other than those implied mandatory by law.

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