

TECHNICAL DATA SHEET

BOOSTER

Generic Name by SUCAMEC: BOOSTER OR MULTIPLIER

DESCRIPTION AND COMPOSITION:

BOOSTER HDP is manufactured by FAMESA EXPLOSIVOS S.A.C and is known by the names of "Primer" or "Cast Booster", being basically composed of pentolite.

The BOOSTER HDP series is a powerful explosive of high density, speed and detonation pressure, so the explosive column that will be activated with it, will maximize its energetic development, which will favorably impact the result of the blasting.

TYPES AND USES:

In order to satisfy the market requirements, FAMESA EXPLOSIVOS S.A.C. offers the following types:

- BOOSTER HDP-1/5 (90 g)
- BOOSTER HDP-1/3 (150 g)
- BOOSTER HDP-1/2 (225 g)
- BOOSTER HDP-3/4 (340 g)
- BOOSTER HDP-1E (450 g)
- BOOSTER HDP-1 ½ E (675 g)
- BOOSTER HDP-2E (900 g)
- BOOSTER HDP-3E (1350 g)



They are used to initiate insensitive explosives or blasting agents such as Slurries, Anfo and Nitrocarbonitrates, where a plain detonator or the explosive power of a Detonating Cord does not activate them. They are used in the blasting of drill holes of different diameters in open pit mines, quarries and eventually in underground mining.

The BOOSTER HDP, with 2 or 3 holes (E), was conceived to be used for several complementary purposes, thus providing it with great versatility, since it can be efficiently used with different types of Pentacord, Fulmelec, Fametronic and Fanel Detonating Cord. When used with the latter accessories, mainly with the Fanel, care has been taken to optimize the assembly between the Fulminator and the Booster (the design of the central holes for assembly with the Fulminator were geometrically designed to avoid errors).

For this concept, the two or three orifices are through holes, but one of them has a reduced diameter for a correct location of the detonator.

The handling temperature range of the BOOSTER is from 0°C up to 60°C. For different temperatures it is recommended to contact the Technical Assistance area.

TECHNICAL CHARACTERISTICS:

	UNIT	HDP 1/5	HDP 1/3	HDP 1/2	HDP 3/4	HDP 1E	HDP 1 1/2 E	HDP 2E	HDP 3E
Diameter	mm	30.5 ± 2.0	37.0 ± 2.0	43.0 ± 2.0	51.6 ± 2.0	60.0 ± 2.0	71.0 ± 2.0	81.5 ± 2.0	98.0 ± 2.0
Height	mm	106.0 ± 2.0	106.0 ± 2.0	120.0 ± 2.0	120.0 ± 2.0	120.0 ± 2.0	120.0 ± 2.0	120.0 ± 2.0	120.0 ± 2.0
Weight	g	90 ± 10	150 ± 10	225 ± 15	340 ± 15	450 ± 15	675 ± 15	900 ± 30	1350 ± 35
Velocity of Detonation	m/s	Min. 7000	Min. 7000	Min. 7000	Min. 7000	Min. 7000	Min. 7000	Min. 7000	Min. 7000
Drilling diameter in ½" thick iron sheet	mm	Min. 27(*)	Min. 23	Min. 28	Min. 40	Min. 58	Min. 69	Min. 80	Min. 96
Resistance to hydrostatic pressure for 2 hours	kg/cm ²	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
Sensitivity to Detonating Cord	---	5P	5P	5P	5P	5P	5P	5P	5P
Water resistance	---	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
Density	g/cm ³	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6

(*) Drilling diameter in 1/4" thick steel sheet.

The values expressed are results at normal conditions (20°C and 1 atm.)

PACKAGING:
Packing 1.1D

	BOX MATERIAL	BOX CAPACITY (Pcs.)	NET WEIGHT (Kg)	GROSS WEIGHT (Kg)	OUTER DIMENSIONS (cm)
BOOSTER HDP-1/5 (90 g)	Cardboard	240	22.6	23.5	37.2 x 31.2 x 23.0
BOOSTER HDP-1/3 (150 g)	Cardboard	120	18.3	19.0	38.3 x 23.3 x 23.0
BOOSTER HDP-1/2 (225 g)	Cardboard	80	18.1	18.8	35.3 x 22.4 x 25.7
BOOSTER HDP-3/4 (340 g)	Cardboard	60	20.5	21.1	32.2 x 27.0 x 25.7
BOOSTER HDP-3/4 E (340 g)	Cardboard	48	16.4	17.3	35.3 x 22.4 x 25.7
BOOSTER HDP-1E (450 g)	Cardboard	50	22.5	23.3	30.8 x 30.8 x 25.7
BOOSTER HDP-1 ½ E (675 g)	Cardboard	32	21.6	22.2	29.3 x 29.3 x 25.9
BOOSTER HDP-2E (900 g)	Cardboard	24	21.6	22.4	33.8 x 25.5 x 25.7
BOOSTER HDP-3E (1350 g)	Cardboard	16	21.9	22.5	40.2 x 20.6 x 25.7

TRANSPORT:

Class : 1
Division : 1.1D
UN No. : 0042


STORAGE AND WARRANTY:

BOOSTER should be stored in magazines at **temperatures between 0°C and 30°C**, located in safe, well ventilated, dry areas, protected from rain and heat. Also, the explosive inventory should be rotated, avoiding the use of new materials before using old ones. And it must be stored according to the current compatibility table of the relevant authority.

BOOSTER kept in its original packaging and stored in the above mentioned temperature conditions has a **warranty period of 60 months** after its production date.

WARNING:

FAMESA EXPLOSIVOS S.A.C. has safe products, but they may become dangerous elements in inexperienced hands.

The purchaser or user must comply with the applicable regulations during transport, storage and use, as well as train duly all its personnel involved in its loading and handling, providing mechanical aids for loads over 25 kg per person.

FAMESA EXPLOSIVOS S.A.C. assumes no liability for transport, storage and/or improper use their products may experience.

The information and recommendation described in this document do not necessarily cover all product applications nor the different conditions under which it is being used. These are based on the experience, research and tests done by Famesa Explosivos S.A.C., who does not guarantee favorable results nor assume any responsibility, expressed or implied, in relation to the use of these suggestions. This product may be changed without prior notice.