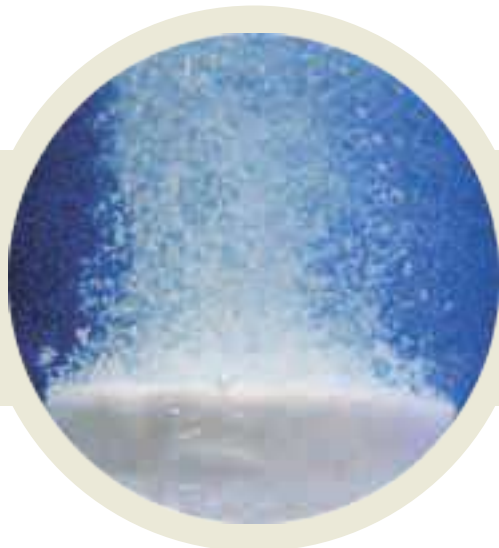




Polyflash[®]
(P-544 DS/DB/D)
A NEW AGE DISINTEGRATING AGENT



Polyflash[®]

(P-544D)

Introduction :

Polyflash is a synthetic, insoluble and rapidly swelling poly methacrylic co-polymer in ionic form of potassium.

Product Range :

- Polyflash P - 544 (DS)
- Polyflash P - 544 (D)
- Polyflash P - 544 (DB)

Pharmaceutical Monograph :

All Polyflash grades confirm to the USP NF monograph specifications of Polacrilin potassium.

Chemical Description :

CAS Number : [39394 - 76 - 5]
Chemical Name : 2 - Propenoic Acid, 2 - Methyl Polymer with Divinyl benzene, potassium salt.

Generic Name :

Methacrylic co-polymer with divinyl benzene.



KEY FEATURES

Different grades

**P - 544 (DS) / P - 544 (D)
P - 544 (DB)**

Particle Size

BENEFITS

: Offers formulation flexibility. Gives better results with different grades in disintegration.

: Confirms to USP specifications

- Retained over # 100 - < 1%
- Retained over # 200 - < 30%

Offers more flexibility in formulations and provides rapid disintegration in the user range of 2 % to 10 %.

With smaller particle size, Polyflash P - 544 (DS) / P - 544 (D) disintegration gives excellent content uniformity in intra granular applications and in small tablets.

With smaller particle size Polyflash P - 544 (DS) / P - 544 (D) disintegration gives smoother mouth feel in quick dissolve & chewable formulations, compared to other disintegration agents with larger particle size.



KEY FEATURES

Granular Particles

: Provides good flow properties during tablet compression.

Porous Particle Morphology

: Swells rapidly & wicks water into the particles & tablet by capillary action, hence provides faster disintegration at lower use level.

No Lump Formation

: Completely insoluble.

Does not form lumps that can impede disintegration, dissolution and drug release.

Low Sodium Content

: 1. When low sodium contents are desired Polyflash polymers do not significantly change total sodium level, even at high usage level.

2. In comparison with conventional disintegrating agents, Na contents are negligible.

High Specific Surface Area

: Rapidly absorbs fluids including water, gases and toxins.

BENEFITS



Polyflash[®]

(P-544D)

Compatibility :

Polyflash is chemically inert, hence they are compatible with a wide range of drugs and other excipients commonly used in pharmaceutical formulations.

Applications :

1. Polyflash provides rapid disintegration in a wide range of oral solid dosage formulations and processes.

In Direct Compression :

To increase disintegration in direct compression formulations, Polyflash should be mixed into the other formulation components and dry blended to homogeneous mixture prior to the addition of lubricant.

In Wet and Dry Granulations :

Polyflash should be added during the wet granulation process and to the dry granulation prior to compression. This improves drug dissolution by taking full advantage of its wicking & swelling properties.

The addition of Polyflash during the wet mixing phase results in an intimate mixture of Polyflash, drug, binder & filler within the granular

matrix. The intra granular distribution of Polyflash is to allow it to breakdown the granules by swelling and expose the greater surface area of drug to gastric fluid.

2. Polyflash disintegrant is well suited for quick dissolve & chewable tablets as it provides rapid disintegration and smooth mouth feel with low friability.
3. Depending on structure of the active ingredient, Polyflash can be used to improve dissolution & hence enhance bioavailability; hence it is considered to be a truly universal DT agent.
4. Due to its multiple action & application with a wide range of drugs, it is highly acceptable as a disintegrating agent.

Safety & Tolerability :

Polyflash has been widely used in pharmaceutical products for many years. It has been found safe & effective as an excipient in a variety of approved finished dosage forms. A toxicity and safety profile for Polyflash polymer is available upon request.



Doshion Global Footprint

Algeria	Oman
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Brazil	Poland
Canada	Portugal
Chile	Russia
Congo	Saudi Arabia
Czech Republic	South Africa
Dom. Republic	Spain
Egypt	Sri Lanka
Indonesia	Sweden
Iran	Syria
Israel	Taiwan
Italy	Tanzania
Japan	Thailand
Jordan	Tunisia
Kenya	Turkey
Latvia	U.S.A.
Lithuania	U.A.E.
Malaysia	Ukraine
Namibia	Vietnam
New Zealand	Zambia

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