

# KYRON T-314 SUPER DISINTEGRANT

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## DESCRIPTION :

Kyron T-314 is derived from acrylate base polymer as per USP/NF. It is an effective super disintegrant as well as dissolution improver in solid dosage forms like tablets, capsules, pellets etc. Kyron T-314 is available in white free flowing powder hence it is more suitable in direct compression system.

## USE :

Kyron T314 is a very high purity polymer finding use in pharmaceutical formulations as a Superb TABLET DISINTEGRANT for oral dosage formulations.

## USE LEVEL :

Required quantity is from 0.4 to 2% of avg. weight of tablet on lubrication stage.

## APPLICATIONS :

Disintegrating Agent : Kyron T314 has a very high swelling tendency on hydration either in contact with water or G.I. fluids causing fast disintegration without the formation of lumps and thus acts as an effective TABLET DISINTEGRANT.

## ADVANTAGES :

- Rapid Disintegration.
- Elimination of lump formation.
- Compatibility with other therapeutic agents and excipients.
- Imparts excellent strength to the tablet and also eliminates the sticking to the dies and punch.
- Improves bioavailability of the drug.
- Tablet breaks uniformly with each particle as separate identity.



## HOW TO USE KYRON IN DIRECT COMPRESSION

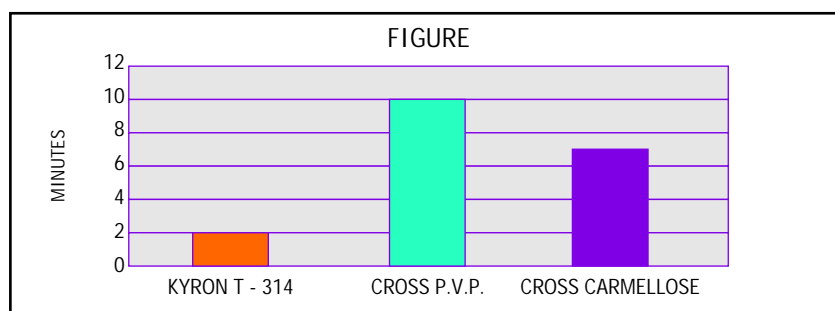
For direct compression system, prepare drug granules with P.V.P or HPMC and avoiding use of starch or gelling binder. In these granules, mix Kyron T-314 first and the mix lubricants. Prepare the tablet and put it in water or G.I. Fluid. Kyron T-314 absorbs water and break the tablet. A Ranitidine Hydrochloride tablet direct compression system was carried out to evaluate the disintegration effect of Kyron T-314 in comparison with Cross P.V.P. and Cross Carmellose using 1%. The results are shown in figure

Ingredients	Percentage
Ranitidine Hcl	68
Microcrystalline Cellulose	28
Disintegrant	1
Talcum	2
Magnesium Stearate	1
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	100

Tablet Characteristic :

Punch Size	: 7.93 mm
Tablet weight	: 250 mg.
Tablet Hardness	: 8 to 10 Kg./cm <sup>2</sup>

Ranitidine HCL Direct Compression Disintegration Time



### TOXICITY :

Kyron T314 is high molecular weight polymer, so doesn't get absorbed by body tissues & is safe for human consumption. It has no physiological action at recommended dosage & it is non-toxic.

### STORAGE :

Store in tightly closed container. Keep away from moisture. If moisture is absorbed dry at 90°C to 100°C to remove moisture content below 10%.

### PACKING :

5 kg., 20 kg., net in Laminated corrugated box with polyethylene liner.

For more Technical detail, contact ...



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