

## AVCO-POLYQUEST 1096

*COMPLEXING / DISPERSING AGENT FOR DYEING AND PREPARATION*

### **SPECIFICATION:**

<b>Appearance</b>	Clear, viscous, slightly yellowish liquid.
<b>Chemical nature</b>	Blend of phosphonates and polycarboxylated polymers.
<b>Compatibility</b>	a. Good in pH range of 3 – 13. b. Good with nonionic and anionic products.
<b>Density (gr/cc)</b>	App. 1.1
<b>Ionicity</b>	Anionic.
<b>pH</b>	7 ± 1
<b>Solubility</b>	Soluble in water at any ratio.
<b>Storage</b>	Good for at least 12 months.

### **PROPERTIES & USES:**

1. AVCO-POLYQUEST 1096 is an excellent complexing/dispersing agent, that operates as a crystal distorter and threshold inhibitor, which prevents water hardness from precipitation onto textile fibres and machine walls.
2. AVCO-POLYQUEST 1096 is an efficient protective colloid, which prevents re-deposition of impurities onto textile fibers.
3. AVCO-POLYQUEST 1096 loosens from the fibers and disperses in water phase metal salts, waxes, pectines and other precipitated materials found on fibres structure.
4. AVCO-POLYQUEST 1096 does not sequester metals which are included in dyestuff molecules such as copper in phthalocyanine derivatives.
5. AVCO-POLYQUEST 1096 is stable at a wide pH range of 3 - 13.
6. AVCO-POLYQUEST 1096 is stable at high temperature such as HT-conditions.
7. AVCO-POLYQUEST 1096 disperses and sequesters water hardness and heavy metal ions contaminating raw fibers, salts and other chemicals used in preparation, and dyeing procedures.

### **APPLICATION:**

1. AVCO-POLYQUEST 1096 should be added to the treatment bath before other additives or dyestuffs.
2. AVCO-POLYQUEST 1096 can be metered to continuous ranges as is or pre-diluted at any ratio.

**GUIDING RECIPES:**

**1. PREPARATION PROCEDURES:**

AVCO-POLYQUEST 1096 is very beneficial in scouring bath after de-sizing treatment. Removal of sizes from fabrics is much better and fabric absorbency is improved. Use 1-3 gr/l.

In pre-washing and scouring procedure before bleaching or dyeing, addition of AVCO-POLYQUEST 1096 improves very much dirt removal and prevents re-deposition. Use 1-3 gr/l.

**2. DYEING PROCEDURES**

- AVCO-POLYQUEST 1096 enables dyeing of raw cotton and polyester-cotton knits without pretreatment. Use 2-3 gr/l in the dyeing bath together with 1-2 gr/l of AVCO-BIOLUZE DCB or AVCO-PAL VIC.
- Addition of 1-2 gr/l AVCO-POLYQUEST 1096 to the dyeing bath promotes level dyeing and helps to prevent deposits and other contamination caused by water and chemicals used in the dyeing bath. Shades will be brighter and reproduction will be better.
- AVCO-POLYQUEST 1096 is an excellent complexing agent for dyeing polyester. Addition of 1-2 g/l AVCO-POLYQUEST 1096 will eliminate any disturbance which may occur because of water hardness.

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**3. SOAPING OFF PROCEDURES**

- AVCO-POLYQUEST 1096 is a non surface active washing preparation, that is used for after washing of reactivities. Number of washing cycles can be reduced. The product is non foaming and there is no need of anti-foams. Use 1-3 gr/l.
- AVCO-POLYQUEST 1096 is an excellent after washing agent for cotton fabrics printed with reactive dyestuff. AVCO-POLYQUEST 1096 keeps white ground from being stained by loose dyestuff in the washing liquor. Use 1-3 gr/l.