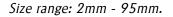# Projectiles
Types & Applications

Projectiles clean when compressed against the internal surface of a hose, tube or pipe. Pressure is achieved as the projectile is approximately 20% to 30% larger than the internal diameter of the hose, tube or pipe. For instance, a 2" (50mm) projectile is recommended for a 1½" (38mm) hose. Individual circumstances may require a smaller or larger projectile. If too large it will not leave the nozzle, but if too small it will not clean effectively.

The enormous variety in types of couplings available today could render a recommended size inappropriate. When cleaning assemblies, a reduction in projectile size may be appropriate, as all recommendations are based on the most commonly used coupling sizes. Custom projectiles can also be developed.

All Ultra Clean Projectiles are made from virgin materials with a specific cell structure and density. This ensures a quality product capable of achieving most ISO-4406-99 and ISO-4405 cleanliness levels when our cleaning procedures are followed. Ultra Clean never uses rebonded, scrap or recycled materials in our projectiles like some other manufacturers.
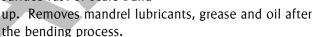
Ultra Clean

Universal application for use with hose, tube, pipe and assemblies. Removes fine particles of loose contamination and can also be used for product purging.
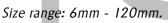
Size range: 2mm - 95mm.

Tube

For use with all types of tubing or pipes. Strongly recommended for stainless steel with mild to medium amounts of contamination, surface rust or scale build-up. Removes mandrel lubricants, grease and oil after the bending process.

Size range: 6mm - 65mm.

Abrasive

For use with tubes or pipes to loosen mild to medium amounts of contamination, surface rust or scale build-up. Always follow-up with an Ultra Clean projectile to clear away loosened contaminants and verify cleanliness. Can be used multiple times.

Size range: 6mm - 120mm.

Ultra Scrub

For use on wet or dry applications of tubes or pipes to loosen medium to high amounts of contamination surface rust or scale build-up. Also navigates assemblies with sweeping bends or elbows.Always follow-up with an Ultra Clean projectile to clear loosened contaminants and verify cleanliness. Can be used multiple times.

Size range: 6mm - 60 mm.

Ultra Clean 100mm-150mm

Ultra Clean Projectiles 100mm and larger are provided with a laminated backer to prevent air perme-ation. The laminated backer should be loaded into the nozzle last so that the air is pushing against it.

Bulk Projectiles

Ultra Clean Technologies also offers Ultra Clean & Tube style projectiles packaged in bulk quantities. The bulk projectile program complements the Bench Mount Launchers for use in a production type atmosphere.

Projectile Kits

UC-P1-Projectile Kit

Includes:
- 11 bags of Ultra Clean Projectiles for cleaning out hose, tube and pipe applications up to ¼" to 1¼" ID.
- These projectiles also form a sub-kit that is included in the UC-EL8-DP Economy Launcher Kit.

UC-P2-Projectile Kit

Includes:
- 13 bags of Ultra Clean Projectiles for cleaning out hose, tube and pipe applications up to ¼" to 2" ID.
- These projectiles also form a sub-kit that is included in the UC-CAP 2" Starter Kit.

Note: All projectile sizes are also available in bulk quantities. Ask your sales rep or call for details.

Projectiles Chart

Projectile Size	Bagged Qty	UC Style Medium Density	Tube Style High Density	*Abrasive	*Scrub
2mm	100	UC02	N/A	N/A	N/A
3mm	100	UC03	N/A	N/A	N/A
4mm	100	UC04	N/A	N/A	N/A
5mm	100	UC05	N/A	N/A	N/A
6mm	100	UC06	UC06-TE	UC-A06	UC-SCR06
7mm	100	UC07	UC07-TE	UC-A07	UC-SCR07
8mm	100	UC08	UC08-TE	N/A	UC-SCR08
10mm	100	UC10	UC10-TE	UC-A10	UC-SCR10
12mm	100	UC12	UC12-TE	UC-A12	UC-SCR12
14mm	100	UC14	UC14-TE	UC-A14	UC-SCR14
16mm	100	UC16	UC16-TE	UC-A16	UC-SCR16
18mm	100	UC18	UC18-TE	UC-A18	UC-SCR18
20mm	50	UC20	UC20-TE	UC-A20	UC-SCR20
22mm	50	UC22	UC22-TE	UC-A22	UC-SCR22
24mm	50	UC24	UC24-TE	UC-A24	UC-SCR24
26mm	50	UC26	UC26-TE	UC-A26	UC-SCR26
28mm	40	UC28	UC28-TE	UC-A28	UC-SCR28
30mm	40	UC30	UC30-TE	UC-A30	UC-SCR30
33mm	40	UC33	UC33-TE	UC-A33	UC-SCR33
36mm	30	UC36	UC36-TE	UC-A36	UC-SCR36
40mm	30	UC40	UC40-TE	UC-A40	UC-SCR40
45mm	20	UC45	UC45-TE	UC-A45	UC-SCR45
50mm	20	UC50	UC50-TE	UC-A50	UC-SCR50
55mm	15	UC55	UC55-TE	UC-A55	UC-SCR55
60mm	15	UC60	UC60-TE	UC-A60	UC-SCR60
65mm	10	UC65	UC65-TE	UC-A65	N/A
70mm	10	UC70	N/A	UC-A70	N/A
75mm	10	UC75	N/A	UC-A75	N/A
80mm	10	UC80	N/A	UC-A80	N/A
85mm	10	UC85	N/A	UC-A85	N/A
90mm	10	UC90	N/A	UC-A90	N/A
95mm	10	UC95	N/A	UC-A95	N/A
100mm	10	UC100	N/A	UC-A100	N/A
110mm	10	UC110	N/A	UC-A110	N/A
120mm	10	UC120	N/A	S/O	N/A
130mm	10	UC130	N/A	S/O	N/A
140mm	10	UC140	N/A	S/O	N/A
150mm	10	UC150	N/A	S/O	N/A

Included in UC-P1-Projectile Kit.

Included in UC-P2-Projectile Kit.

N/A = Not available
S/O = Special order

*Not to be used with UC-BM1.25-G3 or UC-CAL-MS production launcher.