

## Description

This intermediate level package includes composite materials, equipment, and shop supplies necessary for an intermediate level advanced composite shop. This package is designed for learning environments utilizing oven-cured projects sized appropriately. Projects up to 4 feet long may be accommodated.



This packages includes...

### Equipment

- VACSYSKITIL - Vacuum System, Hoses, Probes, Gauge, Manifold, and Fittings.....Quantity: 1 Ea
- PCCEG36X48 - Electric Oven (Interior: 36in wide x 48in deep x 36in high) .....Quantity: 1 Ea
- CFMED - Chest Freezer (Interior 21.7 cu.ft.) .....Quantity: 1 Ea
- DDTL - Downdraft Table (Workspace: 28in x 79in).....Quantity: 1 Ea
- TTIS 20" - 20in Tabletop Impulse Sealer .....Quantity: 1 Ea
- TTCS - Tabletop Cutting Surface (0.25in thick, custom width x length) .....Quantity: 50 SF

### Materials

- BMS 9-3 7781 - Dry Fiberglass Fabric Style 7781 (38in wide).....Quantity: 15 Yds
- BMS 9-8 3K-70-P - Dry Graphite Cloth Style 3K-70-P (42in wide).....Quantity: 15 Yds
- KEVLAR 285 - Dry Kevlar Fabric Style 285 (38in wide).....Quantity: 15 Yds
- BMS 8-79 120 - Fiberglass Prepreg 250 Degree Style 120 (38in wide).....Quantity: 15 Yds
- BMS 8-79 7781 - Fiberglass Prepreg 250 Degree Style 7781 (38in wide).....Quantity: 15 Yds
- BMS 8-168 3K-70-PW - Graphite Prepreg 250 Degree Style (42in wide).....Quantity: 15 Yds
- AF 163-2K .06 - Adhesive Film 3M AF 163-2K .06 (36in wide).....Quantity: 15 Yds
- MA 562 GRADE 50 - Foaming Adhesive (1ft x 2ft).....Quantity: 5 Sheets
- APH 1/8-3.0 48X96X0.50 - Non Metallic Honeycomb (48in x 48in x 0.5in) Quantity: 0.5 Sheets

### Bagging Materials

- FT-01 - Flash Tape (1in wide x 72yds long).....Quantity: 5 RLS
- B100Z - Non-woven Breather/Bleeder Fabric (10ozft; 60in wide x 50yds long).....Quantity: 1 RL
- MQ46 - Vacuum Bagging Film (2mil thickness x 60in wide x 500ft long).....Quantity: 1 RL
- NPP-46 - Nylon Peel Ply (46in wide).....Quantity: 25 Yds
- FEP48-NP - Non-perforated Parting Film (48in wide).....Quantity: 25 Yds
- FEP48-P - Perforated Parting Film (48in wide).....Quantity: 25 Yds
- ST-1/8X1/2X30' - Vacuum Bagging Sealant Tape.....Quantity: 32 RLS

### Shop Supplies

- POLYTB14IN - Clear Poly Packaging Material (14in wide x 725ft long).....Qty: 1 RL
- STDSP3X4 - Standard Spreader (3in x 4in).....Qty: 100 Ea
- CTFTSTCK - Jumbo Craft Stick (6in x 3/4in) (500/box).....Qty: 2 Boxes
- MXCUPS - 16oz Paper Cups, Non Wax (500/case).....Qty: 1 CS
- TYVAPRON - Tyvek Apron (100/case).....Qty: 1 CS
- SEGLVS - Nitrile Gloves (Small).....Qty: 10 Boxes
- SEGLVM - Nitrile Gloves (Medium).....Qty: 10 Boxes
- SEGLVL - Nitrile Gloves (Large).....Qty: 10 Boxes
- SEGLVXL - Nitrile Gloves (X-Large).....Qty: 10 Boxes
- SERESP - N95 Particulate Respirator (10/box).....Qty: 12 Boxes
- SCACC - Purewipe Class A Cleaning Cloth (100/bag).....Qty: 5 Bags
- RF 4010 - Epoxy Resin (Part A).....Qty: 2 Gal
- RF 81 - Epoxy Curing Agent (Part B).....Qty: 1 Gal



### Shop Supplies (cont.)

- 3MTD-1 – Desktop Tape Dispenser (1in).....Qty: 3 Ea
- BAGTOOL – Bagging Tool (Handle Type).....Qty: 15 Ea
- FREKOTE 710NC – Frekote 710 NC Mold Release.....Qty: 1 Gal
- LD36GR2T3 – 36 Grit Locking Disc (2in, 100disc/box).....Qty: 100 Discs
- LD60GR2T3 – 60 Grit Locking Disc (2in, 100disc/box).....Qty: 100 Discs
- LD80GR2T3 – 80 Grit Locking Disc (2in, 100disc/box).....Qty: 100 Discs
- LD120GR2T3 – 120 Grit Locking Disc (2in, 100disc/box).....Qty: 100 Discs
- LD240GR2T3 – 240 Grit Locking Disc (2in, 100disc/box).....Qty: 100 Discs
- HP6120VFA610 – sifleece Handpad (Very Fine, 6in x 9in, 60pads/box).....Qty: 60 Pads

### Recommended Supplies Not Include

- A Comprehensive Guide to Composites Book
- Material rack (Minimum width of 65in)
- Flat aluminum tooling (minimum size of largest project)
- Utility knives
- Shop Scissors
- Chip Brushes
- Safety glasses & storage for safety glasses
- Digital weighing scale (minimum 15lbs)
- 6in measuring scales
- Protractors
- Sharpie Permanent marker (black)
- Color-TEX pencil (blue or yellow)
- Wash bottles

## Application

With this package you will be able to teach students a variety of skill sets related to advanced composite production such as:

- ✓ Wet and dry lay-up
- ✓ Resin mixing and spread
- ✓ Vacuum bagging
- ✓ Cure techniques
- ✓ Part fabrication and trimming
- ✓ Quality Inspection

*Note: equipment photos are for presentation purposes only. Actual colors and sizes may vary depending on your specifications.*