

LAYERING BASICS



WHAT IS LAYERING?

- Combining 2 or more arc rated garments into a layered system in order to achieve a higher level of arc protection.

WHY IS IT IMPORTANT?

- Layering can provide increased performance and comfort. Lightweight layers often achieve higher levels of protection than traditional solutions. Layering also allows for quick adjustments based on the level of protection needed for different tasks.

WHY CAN'T I ADD THE 2 ARC RATINGS TOGETHER?

- Layered systems need to be arc tested together. In arc flash, 2 + 2 doesn't always equal 4. Always request test reports to have on file. If audited by OSHA you will need proof.

The arc rating of PPE shall exceed that of the hazard. System Arc Ratings only apply to the area where the garments overlap. For example, layering a coverall over a shirt the layered arc rating only applies to the area where the coverall covers the shirt. Bottom protection will also need to be taken into account.

All Arc Rating data is accurate as of August 2021, but changes can occur. Call NSA at (800) 553-0672 or visit ThinkNSA.com for the latest Arc Rating Data.

REMEMBER

$$2 + 2 \neq 4$$

OUTER LAYER

8 CAL ULTRASOFT®
WORK SHIRT
SHRUK__RG
8.7 cal/cm² | CAT 2



INNER LAYER

FR CONTROL 2.0™
LONG SLEEVE TEE
C52FKSRLS__
4 cal/cm² | CAT 1



TOTAL PROTECTION

EBT
24 cal/cm²

8 CAL ULTRASOFT®
NAVY COVERALL
C88UJ____
8.7 cal/cm² | CAT 2



FR CONTROL 2.0™
LONG SLEEVE TEE
C52FKSRLS__
4 cal/cm² | CAT 1



EBT
24 cal/cm²

OUTER LAYER

INNER LAYER

TOTAL PROTECTION

12 CAL ULTRASOFT®
COVERALL
C88UP____
12 cal/cm² | CAT 2



5.5 OZ. TECGEN SELECT®
FR COVERALL
TCG02__08__
8 cal/cm² | CAT 2

TECGEN FR



ATPV
31 cal/cm²

12 CAL ULTRASOFT®
COVERALL
C88UP____
12 cal/cm² | CAT 2



VIZABLE® FR HI-VIS
WORK SHIRT
SHRTV3C3__
8.9 cal/cm² | CAT 2



ATPV
35 cal/cm²

5.5 OZ. TECGEN SELECT®
FR WORK SHIRT
TCG01__02__
8 cal/cm² | CAT 2

TECGEN FR



ATPV
31 cal/cm²

FR ULTRASOFT®
SHORT COAT
C04UP03_32
12 cal/cm² | CAT 2



5.5 OZ. TECGEN SELECT®
FR WORK SHIRT
TCG01__02__
8 cal/cm² | CAT 2

TECGEN FR



ATPV
31 cal/cm²

6 OZ. TECGEN
FR® WORK SHIRT
SHR-DWWS02
9.3 cal/cm² | CAT 2

TECGEN FR



TECGEN SELECT® FR
LONG SLEEVE TEE
C541N__LS__
13 cal/cm² | CAT 2

TECGEN FR



ATPV
31 cal/cm²

TECGEN FR PREMIUM
VENTED SHIRT
SHRA_TGV____
9.1 cal/cm² | CAT 2

TECGEN FR



DRIFIRE® LIGHTWEIGHT
LONG SLEEVE TEE
DF2-CM-446LS
4.5 cal/cm² | CAT 1



EBT
18 cal/cm²

OUTER LAYER

5.5 OZ. TECGEN SELECT®
FR COVERALL
TCG02__08__
8 cal/cm² | CAT 2

TECGEN FR



INNER LAYER

VIZABLE® FR HI-VIS LONG
SLEEVE TEE
TEEY2LSPC3
10 cal/cm² | CAT 2



DRIFIRE® STRONGKNIT
LONG SLEEVE TEE
DF2-793LS
10 cal/cm² | CAT 2



TOTAL PROTECTION

ATPV
26 cal/cm²

ATPV
32 cal/cm²

5.5 OZ. TECGEN SELECT®
FR COVERALL
TCG02__08__
8 cal/cm² | CAT 2

TECGEN FR



DRIFIRE® LIGHTWEIGHT
LONG SLEEVE TEE
DF2-CM-446LS
4.5 cal/cm² | CAT 1



EBT
17 cal/cm²

DRIFIRE® LIGHTWEIGHT
LONG JOHN PANT
DF2-446LP
4.5 cal/cm² | CAT 1



EBT
17 cal/cm²

5.5 OZ. TECGEN SELECT®
FR COVERALL
TCG02__08__
8 cal/cm² | CAT 2

TECGEN FR



TECGEN FR® PREMIUM
VENTED SHIRT
SHRA_TGV____
9.1 cal/cm² | CAT 2

TECGEN FR



ATPV
30 cal/cm²

DRIFIRE® FR HI-VIS
UTILITY SHIRT
DF2-AX3-324LS-HY
12 cal/cm² | CAT 2



ATPV
31 cal/cm²

OUTER LAYER

INNER LAYER

TOTAL PROTECTION

5.5 OZ. TECGEN SELECT®
FR COVERALL
TCG02__08__
8 cal/cm² | CAT 2



TECGEN FR

6 OZ. TECGEN FR®
WORK SHIRT
SHR-DWWS02
9.3 cal/cm² | CAT 2



TECGEN FR

ATPV
28 cal/cm²

5.5 OZ. TECGEN SELECT®
FR WORK SHIRT
TCG01__02__
8 cal/cm² | CAT 2



TECGEN FR

ATPV
30 cal/cm²

5.5 OZ. TECGEN SELECT®
FR COVERALL
TCG02__08__
8 cal/cm² | CAT 2



TECGEN FR

VIZABLE® FR HI-VIS
WORK SHIRT
SHRTV3C3__
8.9 cal/cm² | CAT 2



ATPV
31 cal/cm²

5.5 OZ. TECGEN SELECT®
FR WORK SHIRT
TCG01__02__
8 cal/cm² | CAT 2



TECGEN FR

DRIFIRE® STRONGKNIT
FR HI-VIS LONG
SLEEVE T-SHIRT
DF2-AX3-793LSP-HY
10 cal/cm² | CAT 2



ATPV
32 cal/cm²

DRIFIRE® STRONGKNIT
LONG SLEEVE TEE
DF2-793LS
10 cal/cm² | CAT 2



ATPV
32 cal/cm²

5.5 OZ. TECGEN SELECT®
FR WORK SHIRT
TCG01__02__
8 cal/cm² | CAT 2



TECGEN FR

VIZABLE® FR HI-VIS
LONG SLEEVE TEE
TEEY2LSPC3
10 cal/cm² | CAT 2



ATPV
26 cal/cm²

OUTER LAYER

INNER LAYER

TOTAL PROTECTION

5.5 OZ. TECGEN SELECT®
FR WORK SHIRT
TCG01__02__
8 cal/cm² | CAT 2



TECGEN FR

HI-VIS FR CONTROL 2.0™
LONG SLEEVE TEE
BSTJTRLSC3__
4 cal/cm² | CAT 1



EBT
19 cal/cm²

FR CONTROL 2.0™
LONG SLEEVE TEE
C52FKSRLS__
4 cal/cm² | CAT 1



EBT
19 cal/cm²

5.5 OZ. TECGEN SELECT®
FR WORK SHIRT
TCG01__02__
8 cal/cm² | CAT 2



TECGEN FR

DRIFIRE® LIGHTWEIGHT
LONG SLEEVE TEE
DF2-CM-446LS
4.5 cal/cm² | CAT 1



EBT
17 cal/cm²

VIZABLE® FR HI-VIS
WORK SHIRT
SHRTV3C3__RG
8.9 cal/cm² | CAT 2



HI-VIS FR CONTROL
2.0™ LONG
SLEEVE TEE
BSTJTRLSC3__
4 cal/cm² | CAT 1



EBT
26 cal/cm²

FR CONTROL 2.0™
LONG SLEEVE TEE
C52FKSRLS__
4 cal/cm² | CAT 1



EBT
26 cal/cm²

DRIFIRE® FR
LIGHTWEIGHT
LONG SLEEVE TEE
DF2-CM-446LS
4.5 cal/cm² | CAT 1



EBT
25 cal/cm²

OUTER LAYER

HYDROLITE 2.0 FR™
EXTREME WEATHER
JACKET
HYDRO2JACK
31 cal/cm² | CAT 2

HYDROLite FR™



INNER LAYER

DRIFIRE® LIGHTWEIGHT
LONG SLEEVE TEE
DF2-CM-446LS
4.5 cal/cm² | CAT 1



DRIFIRE® 4.4 WORK SHIRT
DF2-CM-450C-LS-NB-__
8 cal/cm² | CAT 2



5.5 OZ. TECGEN SELECT®
FR WORK SHIRT
TCG01_02__
8 cal/cm² | CAT 2

TECGEN FR



TOTAL PROTECTION

EBT
54 cal/cm²

ATPV
55 cal/cm²

ATPV
56 cal/cm²

HYDROLITE 2.0 FR™
EXTREME WEATHER
BIB OVERALL
HYDRO2BIB
31 cal/cm² | CAT 2

HYDROLite FR™



DRIFIRE® LIGHTWEIGHT
LONG JOHN PANT
DF2-446LP
4.5 cal/cm² | CAT 1



EBT
54 cal/cm²

INTERESTED IN OTHER GARMENTS?

When it comes to arc flash, we have you covered. These are only a few examples of the layering garments we have to offer. As always, a hazard risk assessment needs to be performed in order to fully understand your specific hazard and the protection it requires.

Contact our safety apparel experts for more detailed information on these and other PPE garments we have available by calling 800-553-0672 or emailing customerservice@thinkNSA.com.