



GUIDE TO UNDERSTANDING ABRASION RESISTANCE ACCORDING TO ANSI / ISEA 105:2016 STANDARDS

Abrasion resistance in occupational gloves is measured on a 7-level scale of 0-through-6 based on the ANSI/ISEA 105:2016 standard. It is important to understand protection levels associated with each standard as well as the most appropriate levels for specific applications.

ANSI ABRASION STANDARD



Abrasion resistance standard from the American National Standards Institute (ANSI) and International Safety Equipment Association (ISEA) became effective in 2016.

ANSI / ISEA 105:2016 Abrasion Standard				
ABRASION LEVEL RATING	GRAM LOAD	ABRASION CYCLES TO FAIL	PROTECTION LEVEL	APPLICATIONS
0	500	<100	Very Low	–
1	500	≥100	Very Low	Inspection, selection, checking parts / press shop operations / seizing structural & body parts / touching up / processing sheets, coils, tubes
2	500	≥500	Low	Delivery of parts to production line / delivery of vehicles to expedition area / loading & unloading rough parts, boxes / handling parts with sharp, rough edges / seizing / assembly & inspection of components / final inspection / maintenance
3	500	≥1,000	Moderate	Picking, fastening components, parts / adjusting systems & screwing / loading & unloading trucks & vehicles / product shipping, transport, delivery / lock smith
4	1000	≥3,000	High	Assembly of small parts / general handling / picking, fastening components / adjusting systems and screwing
5	1000	≥10,000	High	Handling parts, materials with sharp, rough edges / handling rough machined metal parts / assembly & inspection of components / press injection molding / picking, fastening components / assembling & mounting components
6	1000	≥20,000	Extreme	Handling metal sheets & panels / handling parts & materials with sharp, rough edges / final assembly / assembly & inspection of components / applying finish to materials, products / lock smith / handling incoming goods / mounting & dismantling