Open-Arc and Gas-Shielded Wires

GROUP 3: METAL TO EARTH FOR MODERATE TO SEVERE IMPACT AND MODERATE TO SEVERE ABRASION

STOODY® 965-G & 965-O

STOODY 965-G can be categorized as a general purpose hardfacing alloy that offers a good balance of impact and abrasion resistance. Analysis and properties are very similar to Stoody Self-Hardening. Applications would include both metal-to-metal and metal-to-earth. Deposits are martensitic, forgeable, and are not readily machinable. Can be applied to carbon, low alloy and manganese steel.

Welding Procedures/Characteristics: DCEP (reverse polarity) recommended using either stringer or weave beads. Weldability is very good in flat and horizontal applications. The addition of CO2 shielding gas with the 1/16" (1.6 mm) diameter wire reduces the amount of spatter and improves the weldability

Applications: Tillage Tools, Drag Line Bucket Lips, Tamper Feet, Chisel Plows, Dredge Parts, Extruded Screws, Muller Tires, Sugar Mill Classification Table Combs, Press Rolls - Underlay

Nominal Composition:

Alloy Content - 10% (Chromium, Manganese, Silicon, Carbon) Iron Base

Mechanical Properties Typical Rockwell Hardness:

Base Metal 0.20% C Steel

Layers: 2

Hardness 56-60 HRC



Stoody 965 with addition of dropped tungsten carbides.

Part Number	Dka	Wire Dia.	Shielding	Welding Parameters		rs	
Part Number	Pkg	wire Dia.	Gas	CTWD	Amp	Volts	
965-G							
1 1929300	5 lb PS-LLW (2.27 kg)	0.035" (0.9 mm)	75-80% Ar, Bal. CO ₂	1/2"-5/8" (13-16 mm)	80-130	15-20	
11933300	25 lb PS (11.3 kg)	0.035" (0.9 mm)	75-80% Ar, Bal. CO ₂	1/2"-5/8" (13-16 mm)	80-130	15-20	
1 1423000	10 lb PS (4.5 kg)	0.045" (1.2 mm)	98% Ar / 2% O ₂ or 75-80% Ar, Bal. CO ₂	1/2"-3/4" (13-19 mm)	150-200	25-29	
1 1423100	33 lb WB (15 kg)	0.045" (1.2 mm)	98% Ar / 2% O ₂ or 75-80% Ar, Bal. CO ₂	1/2"-3/4" (13-19 mm)	150-200	25-29	
11875400	300 lb NTP (136 kg)	0.045" (1.2 mm)	98% Ar / 2% O ₂ or 75-80% Ar, Bal. CO ₂	1/2"-3/4" (13-19 mm)	150-200	25-29	
1 1501500	33 lb WB (15 kg)	1/16" (1.6 mm)	98% Ar / 2% O ₂ or 75-80% Ar, Bal. CO ₂	3/4"-1" (19-25 mm)	200-250	27-31	
1 1823900	50 lb PP (22.7 kg)	1/16" (1.6 mm)	98% Ar / 2% O ₂ or 75-80% Ar, Bal. CO ₂	3/4"-1" (19-25 mm)	200-250	27-31	
1 1864500	200 lb HP (90.7 kg)	1/16" (1.6 mm)	98% Ar / 2% O ₂ or 75-80% Ar, Bal. CO ₂	3/4"-1" (19-25 mm)	200-250	27-31	
11933500	200 lb NTP (90.7 kg)	1/16" (1.6 mm)	98% Ar / 2% O ₂ or 75-80% Ar, Bal. CO ₂	3/4"-1" (19-25 mm)	200-250	27-31	
11875500	400 lb NTP (181.4 kg)	1/16" (1.6 mm)	98% Ar / 2% O ₂ or 75-80% Ar, Bal. CO ₂	3/4"-1" (19-25 mm)	200-250	27-31	
965-O							
1 1427100	33 lb WB (15 kg)	1/16" (1.6 mm)	Open-arc or CO ₂	3/4"-1½" (19-32 mm)	200-250	27-31	
1 1427000	50 lb PP (22.7 kg)	1/16" (1.6 mm)	Open-arc or CO ₂	3/4"-1¼" (19-32 mm)	200-250	27-31	
11956000	200 lb HP (90.7 kg)	1/16" (1.6 mm)	Open-arc or CO ₂	3/4"-1¼" (19-32 mm)	200-250	27-31	
11956100	500 lb POP (226.8 kg)	1/16" (1.6 mm)	Open-arc or CO ₂	3/4"-11/4" (19-32 mm)	200-250	27-31	
11946100	60 lb Coil (27.2 kg)	3/32" (2.4 mm)	Open-arc or CO ₂	11/4"-11/2" (32-38 mm)	300-350	25-28	
11987200	60 lb Coil (27.2 kg)	7/64" (2.8 mm)	Open-arc or CO ₂	11/4"-11/2" (32-38 mm)	425-475	28-30	

STOODY® 965 AP-G

STOODY 965 AP-G is a gas-shielded, flux cored, all position, general purpose hardfacing alloy which offers a good balance of impact and abrasion resistance. It can be used in both metal-to-metal and metal-to-earth applications. Deposits are forgeable but not readily machinable. Stoody 965 AP-G has a smooth semi-spray transfer and can be applied to carbon, low alloy, and manganese steels. It is magnetic on carbon and low alloy steels but not on manganese steels. Analysis and properties are similar to Stoody Self-Hardening covered electrode.

Welding Procedures/Characteristics: DCEP (reverse polarity) recommended using 75 Argon/25 CO2 shielding gas. This wire has excellent out-of-position characteristics in the vertical, overhead and horizontal positions. It has a smooth semi-spray transfer and can be applied to carbon and low alloy steels.

Applications: Tillage Tools, Dredge Parts, Sliding Metal Parts, Tire Shredder Knives, Drag Line Bucket Lips, Extruder Screws, Tamper Feet, Churn Drills, Muller Tires, Sugar Cane Harvesters

Nominal Composition:

Alloy Content – 11% (Carbon, Chromium, Manganese,

Molybdenum, Silicon)

Iron Base

Deposit Characteristics:

Abrasion Resistance	Good
Impact Resistance	Good
2 Layer Hardness	57-62 HRC
Deposit Layers	2 Normal, 3 Max.

Dank Namahan	Pkg	Wire Dia.	Shielding Gas	Welding Parameters		
Part Number				CTWD	Amp	Volts
12023500	10 lb PS (4.5 kg)	0.045" (1.2 mm)	75-80% Ar, Bal. CO ₂	1/2"- 3/4" (13-19 mm)	140-225	26-29
1 1807800	33 lb WB (15 kg)	0.045" (1.2 mm)	75-80% Ar, Bal. CO ₂	1/2"- 3/4" (13-19 mm)	140-225	26-29
■ 11808600	33 lb WB (15 kg)	1/16" (1.6 mm)	75-80% Ar, Bal. CO ₂	1/2"- 3/4" (13-19 mm)	170-275	24-30
11962400	200 lb HP (90.7 kg)	1/16" (1.6 mm)	75-80% Ar, Bal. CO ₂	1/2"- 3/4" (13-19 mm)	170-275	24-30